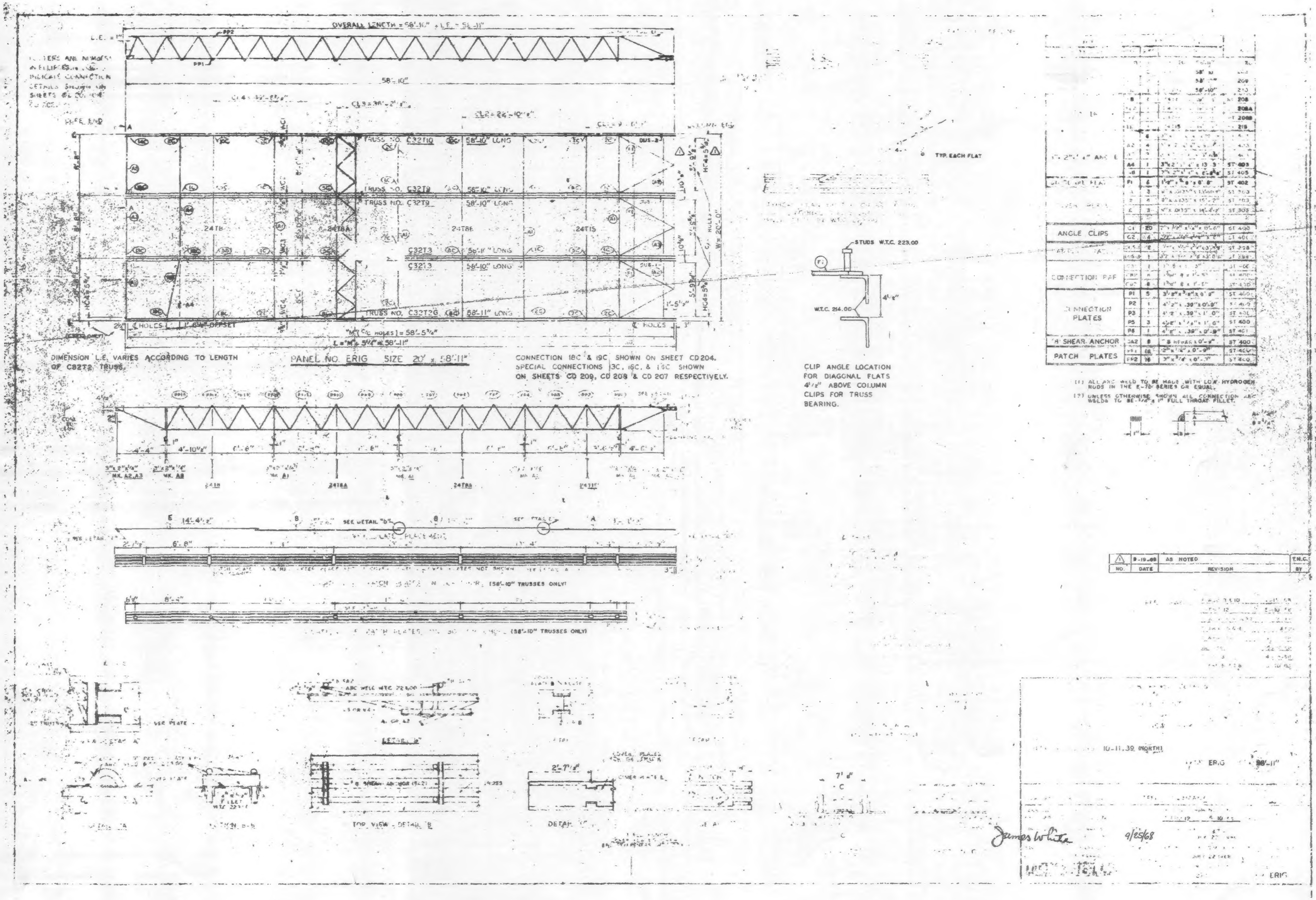
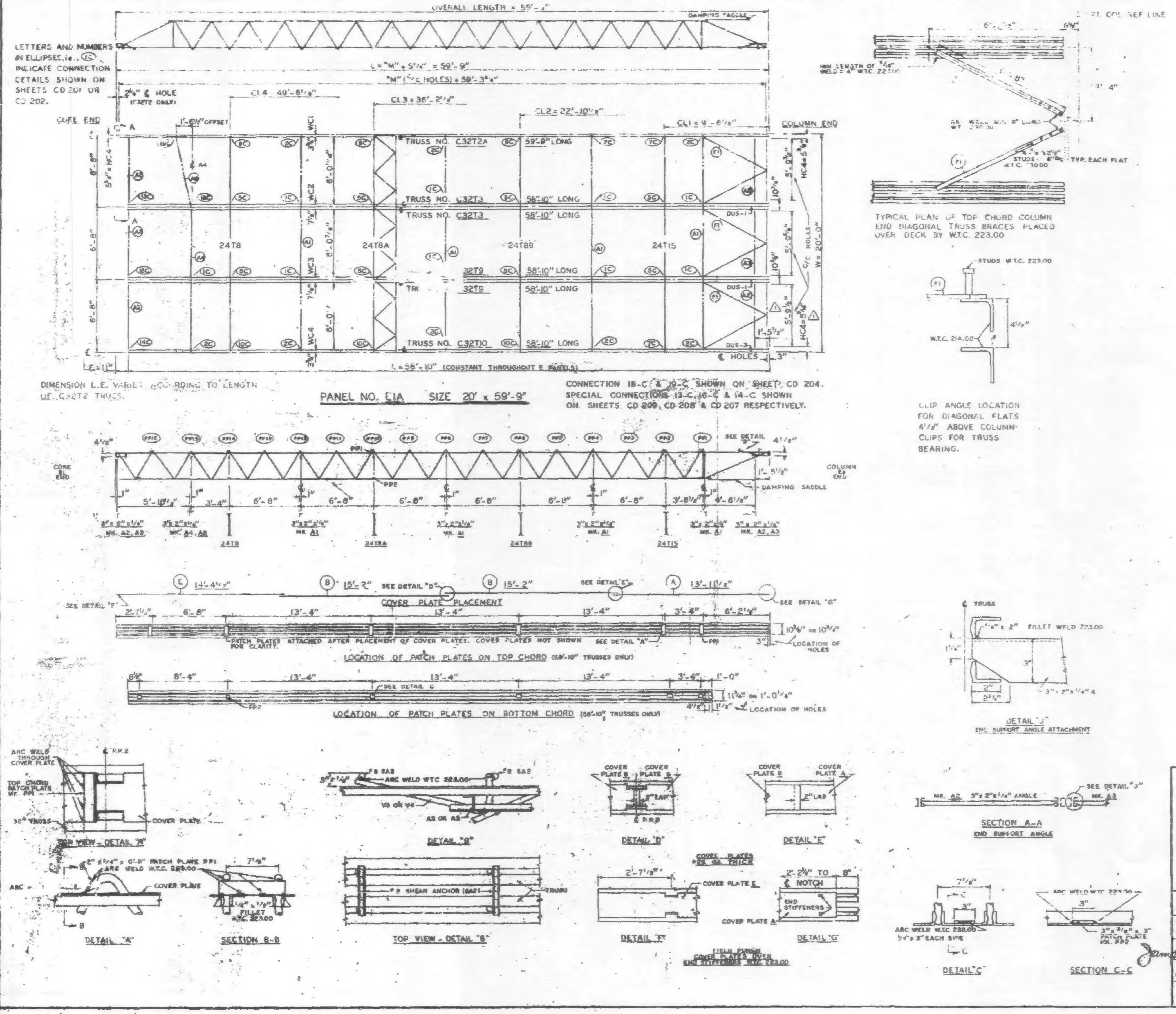
WTC1- 131-LECA





MATERIAL	MK.	PCS.	SIZE	REF. DWG.
TRUSS	T2A	1	C32T2A - 59'-9"	ST 202A
	T3	2	C32T3 - 58'-10"	ST 203
	T9	2	C32T9 - 58'-10"	ST 209
	T10	1	C32T10 - 58'-10"	ST 210
BRIDGING TRUSSES	T8	1	24T8 - 19'-11"	BT 208
	T8A	1	24T8A - 19'-11"	BT 208A
	T8B	1	24T8B - 19'-11"	BT 208B
	T15	1	24T15 - 19'-11"	BT 215
3" x 2" x 1/4" ANGLE	A1	4	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 5/8"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 5/8"	ST 403
	A4	1	3" x 2" x 1/4" x 13'-3"	ST 403
	A8	1	3" x 2" x 1/4" x 6'-5 3/4"	ST 403
DIAGONAL FLATS	F1	6	[illegible]	ST 402
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST 303
	B	6	9" x .0135" x 15'-2"	ST 303
	E	3	9" x .0135" x 14'-4 1/2"	ST 303
ANGLE CLIPS	C1	20	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
	C2	4	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 3/8"	ST 298
	DUS-3	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 3/8"	ST 298
CONNECTION BAR	CB1	12	1" ϕ x 1'-3"	ST 400
	CB2	4	1 3/16" ϕ x 1'-3"	ST 400
	CB3	6	1 5/8" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	1	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P5	3	4 1/2" x 1/4" x 1'-6"	ST 400
	P6	1	4 1/2" x .39" x 0'-9"	ST 401
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
PATCH PLATES	PP1	16	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400

(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
1	9-10-68	AS NOTED	T.M.C.

REF. DRWGS.

7-AB2-3 & 10	4-15-68
7-AB3-11	5-10-68
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 18	5-6-68
7-AB4-42	4-1-68
SA-124	10-20-68
7-AB1-3	4-15-68
7-AB1-6, 7 & 8	5-10-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH) 49-58, 60-66, 68, 69 (NORTH)
PANEL E1A - 20' x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-11 5-10-68

PLATE

APPROVED FOR FABRICATION James White FOR PONYA — DATE 9/25/68

DRAWN BY adc — DATE JULY 22, 1968

APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE

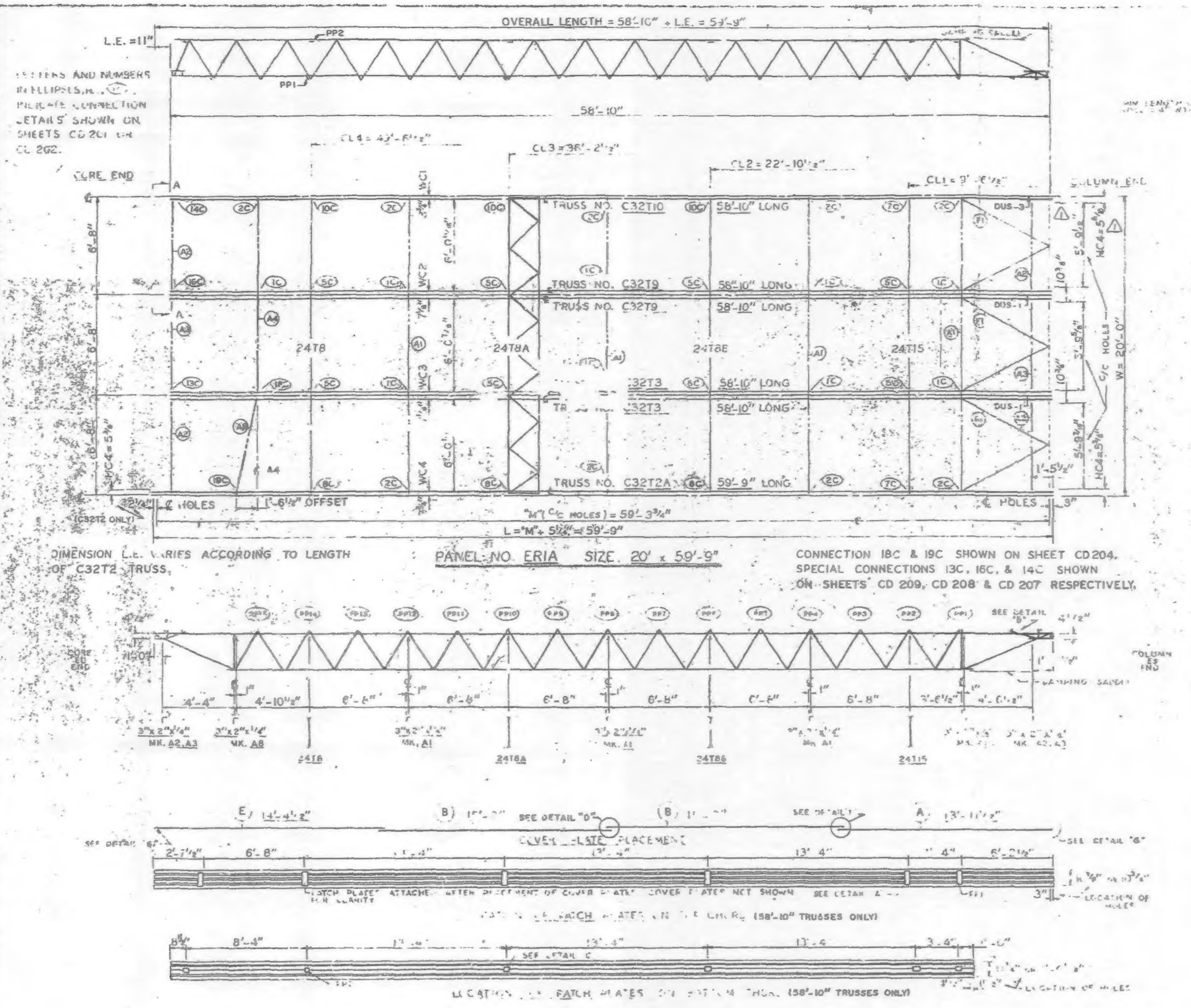
CHECKED BY T.M.CHURA — DATE JULY 22, 1968

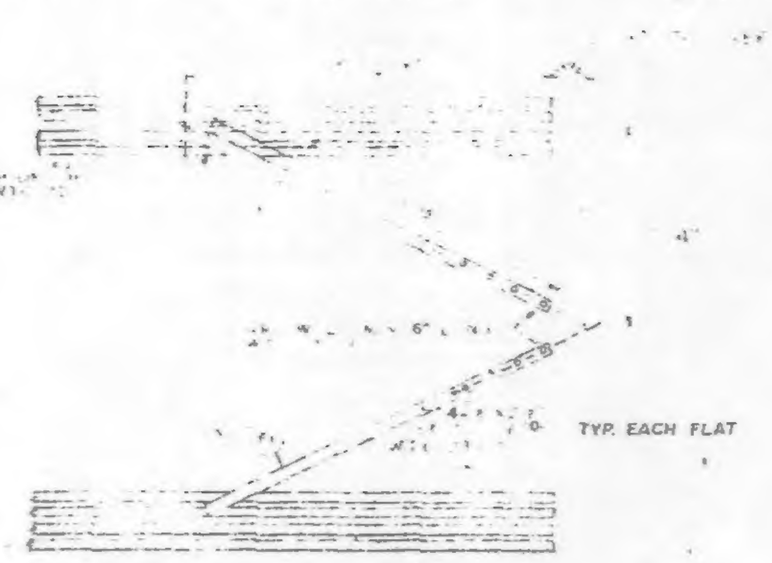
IN CHARGE OF PROD. DEV.

DETAILED BY A. CARL WEBER

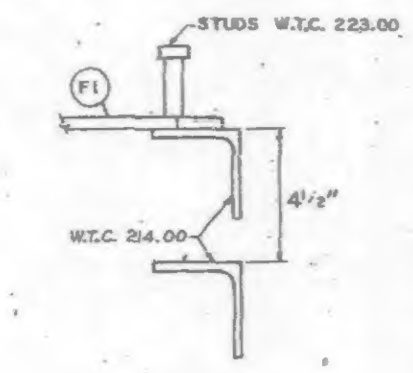
FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FP E1A





TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00



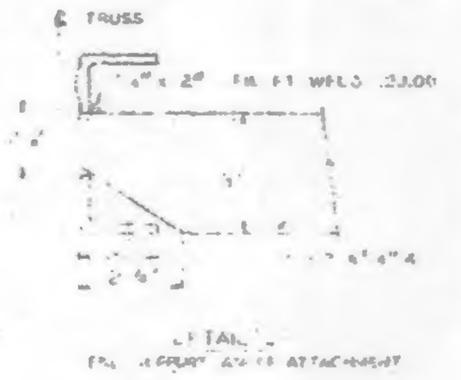
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

[illegible]	[illegible]	[illegible] 58'-10"	203
[illegible]	[illegible]	[illegible] 58'-10"	209
[illegible]	1	[illegible] 58'-10"	210
[illegible]	1	[illegible]	208
T8A	1	[illegible]	208A
T8B	1	24T8B [illegible]	208B
T15	1	15 [illegible]	215
3"x 2"x¼" ANGLE	A1	4	[illegible]	ST 40[illegible]
	A2	4	[illegible]	[illegible]
	A3	2	[illegible]	[illegible]
	A4	1	3"x2"x¼" x 13'-3"	ST 403
	A8	1	3"x2"x¼" x 6'-8⅝"	ST 405
DIAGONAL FLATS	F1	[illegible]	1½" x ⅝" x 8'-8"	ST 402
COVER PLATES	A	3	9" x .0135" x 13'-[illegible]	ST [illegible]
	B	6	9" x .0135" x 15'-2"	ST 303
	E	3	9" x .0135" x 14'-4½"	ST 303
ANGLE CLIPS	C1	20	2"x1½"x¼" x 0'-8"	ST 400
	C2	4	2½"x1½"x¼" x 6"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x 3½"x⅜"x 3'-6⅞"	ST 298
	DUS-3	1	3½"x 3½"x⅜"x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	1	1" ⌀ x 1'-3"	ST 400
	CB2	5	1⅜" ⌀ x 1'-3"	ST 400
	CB3	6	1⅜" ⌀ x 1'-5"	ST 400
CONNECTION PLATES	P1	5	3½"x⅜" x 6½"	ST 400
	P2	1	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400
	P5	3	4½" x ¼" x 1'-6"	ST 400
	P6	1	4½" x .39" x 0'-9"	ST 401
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
PATCH PLATES	PP1	18	2"x¼" x 0'-9"	ST 400
	PP2	18	3"x⅜" x 0'-3"	ST 400

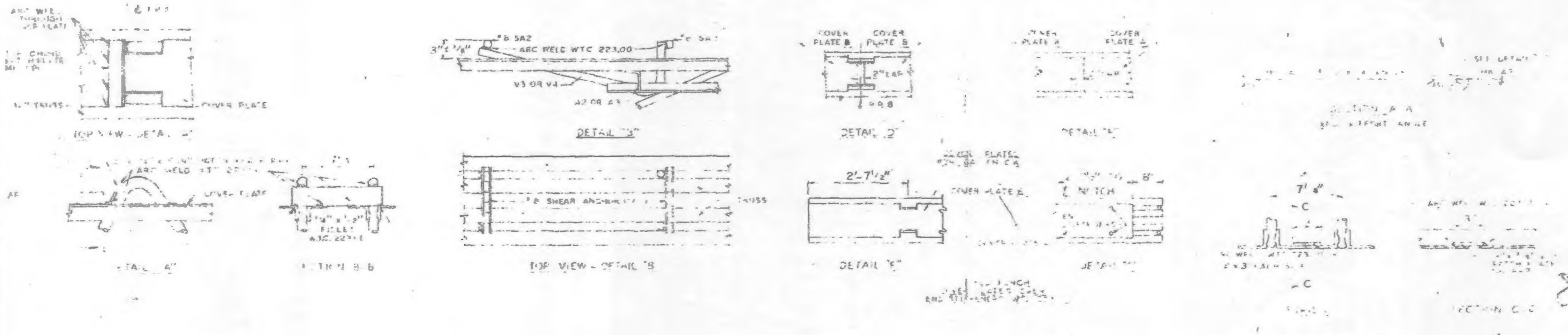
(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE ¼" x 1" FULL THROAT FILLET.

A = ¼"
B = ⅛"



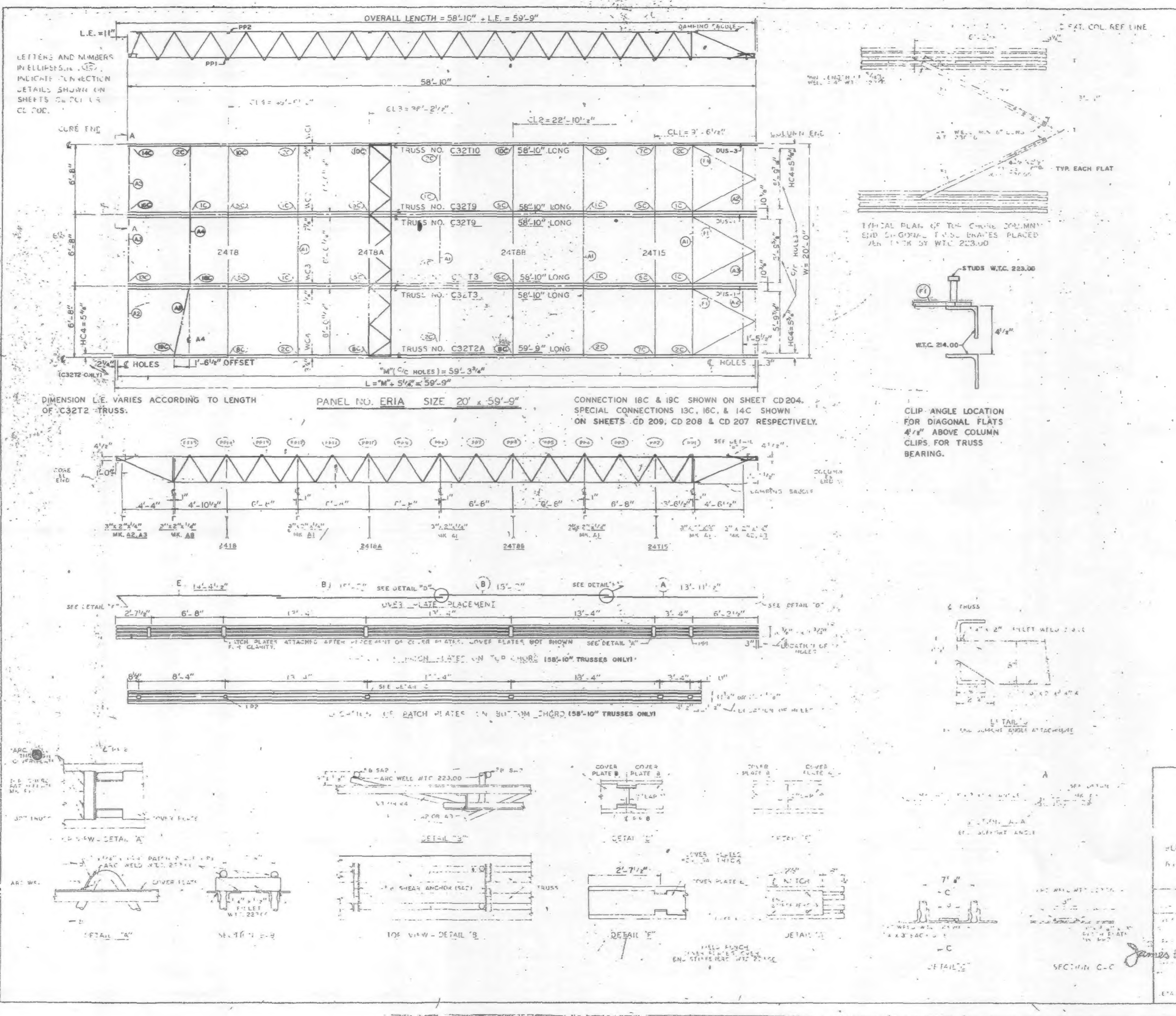
NO.	DATE	REVISION	BY
1	9-19-68	AS NOTED	T.M.C.



PANEL ERIA

9/25/68

ERIA



[illegible]				[illegible]
[illegible]	MK	[illegible]	SIZE	DRWG
[illegible]	T2A	1	32T2A - 59'-9"	ST 202A
	T3	2	C32T3 - 58'-10"	ST 203
	T9	2	C32T9 - 58'-10"	ST 209
	T10	1	C32T10 - 58'-10"	ST 210
[illegible]	T8	1	24T8 - 19'-11"	ST 208
	T8A	1	24T8A - 19'-11"	ST 208A
	T8B	1	24T8B - 19'-11"	ST 208B
	T15	1	24T15 - 19'-11"	ST 215
3" x 2" x 1/4" ANGLE	A1	4	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 5/8"	ST 403
	A3	2	3" x 2" x 1/4" x [illegible]	ST 403
	A4	1	3" x 2" x 1/4" x 13'-3"	ST 403
	A8	1	3" x 2" x 1/4" x 6'-8 5/8"	ST 405
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST 303
	B	6	9" x .0135" x 15'-2"	ST 303
	E	3	9" x .0135" x 14'-4 1/2"	ST 303
ANGLE CLIPS	C1	20	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
	C2	4	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
CAMBING SADDLE	[illegible]	2	[illegible]	ST 298
	[illegible]	1	[illegible]	ST 298
CONNECTION BAR	CB1	1	1" ϕ x 1'-3"	ST 400
	CB2	6	[illegible] ϕ x 1'-3"	ST 400
	CB3	6	[illegible] ϕ x 1'-5"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	1	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400
	P5	3	4 1/2" x 1/4" x 1'-6"	ST 400
	P6	12	4 1/2" x .30" x 0'-9"	ST 401
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400

(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

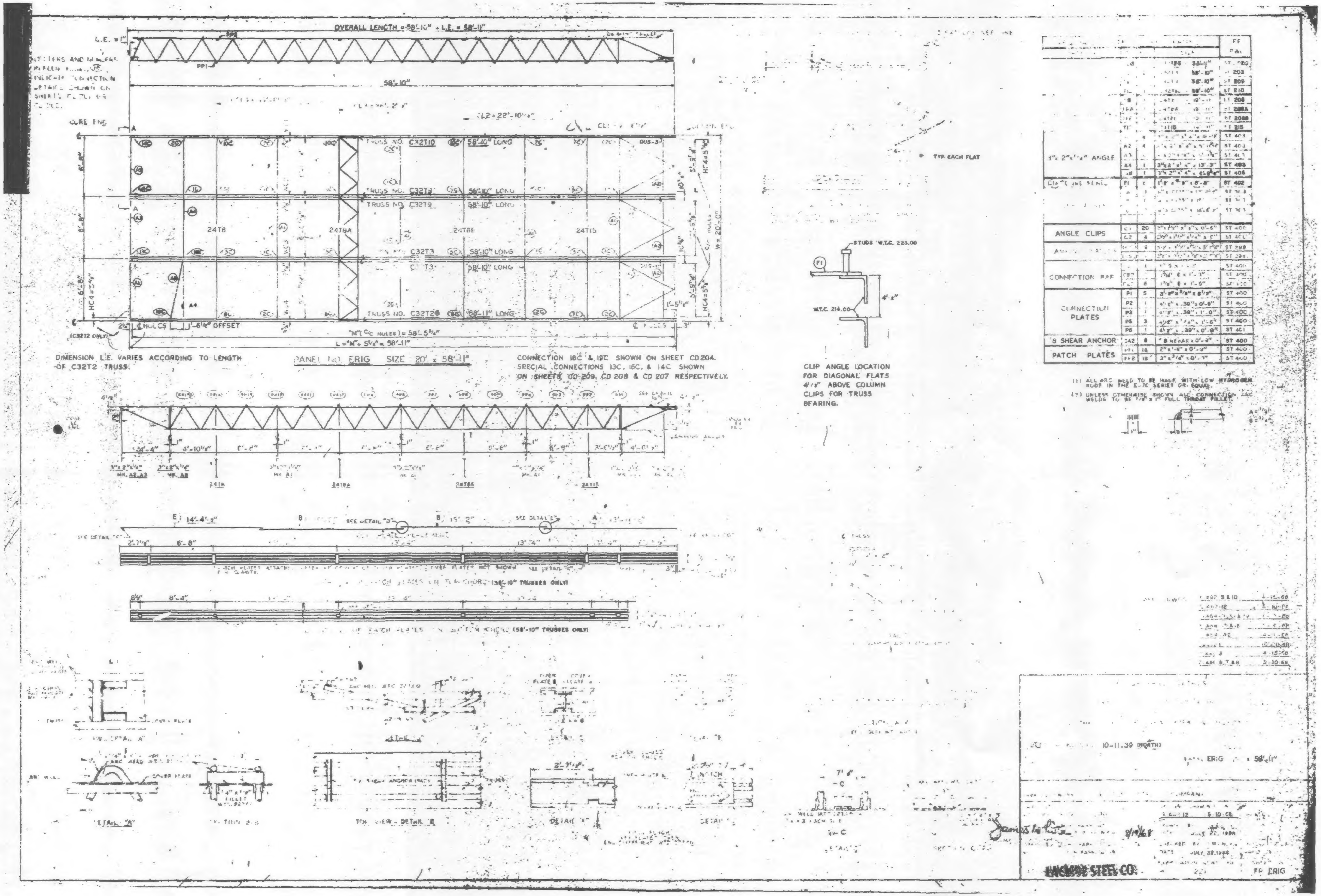
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" x 1" FULL THROAT FILLET.

PANEL ERIA

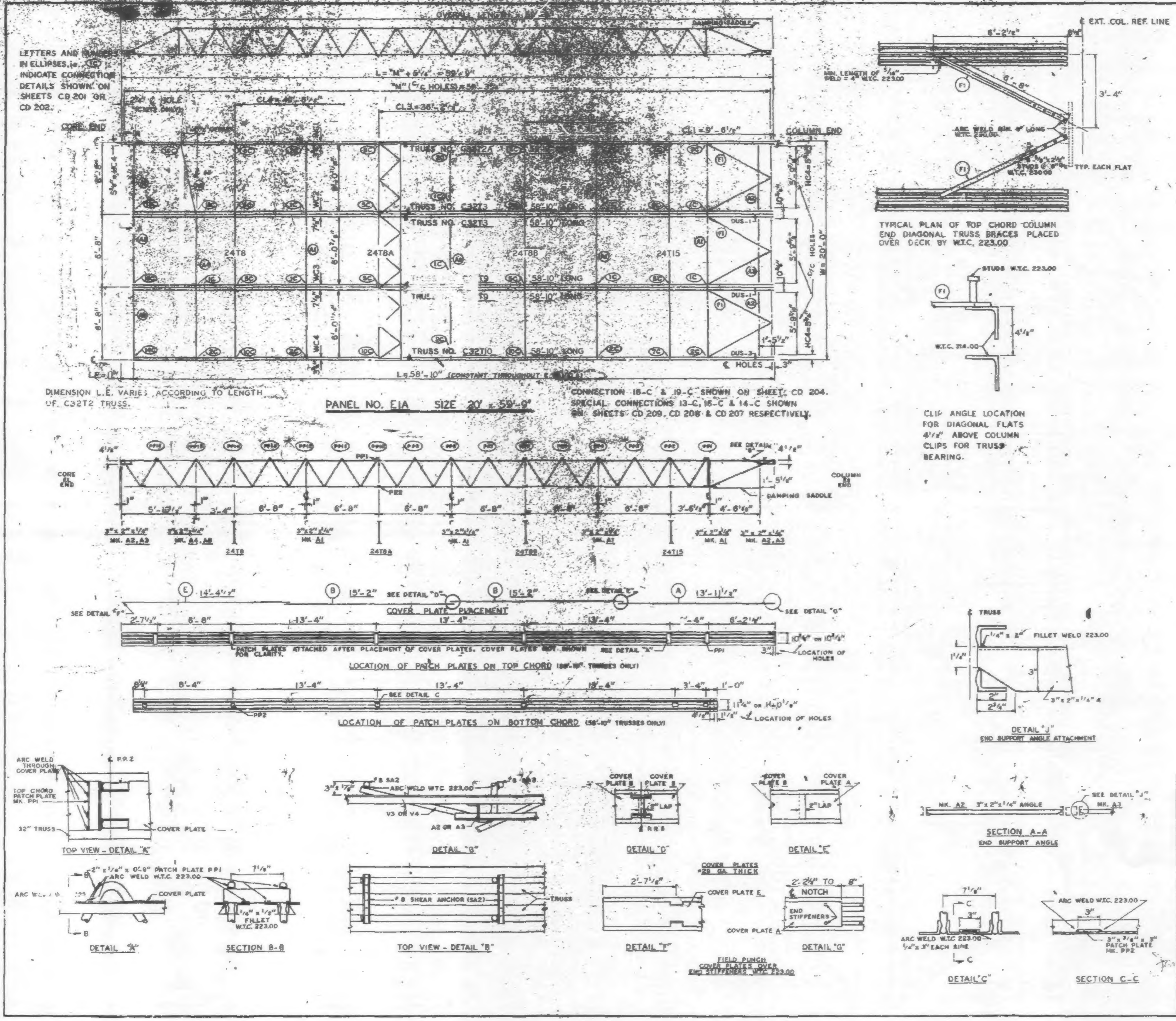
8/19/68

LACLEDE STEEL CO.

FP ERIA



OVERALL LENGTH = 58'-10" + L.E. = 58'-11"
L.E. = 1"
58'-10"
CL2 = 22'-10½"
CORE END
TRUSS NO. C32T10
58'-10" LONG
TRUSS NO. C32T9
58'-10" LONG
24T8
24T8A
24T8B
24T15
C32T3
58'-10" LONG
58'-10" LONG
TRUSS NO. C32T26
58'-11" LONG
W = 20'-0"
HC4=5⅜"
1'-6½" OFFSET
(C32T2 ONLY)
"M" (C/C HOLES) = 58'-5¾"
L = "M" + 5¼" = 58'-11"
DIMENSION L.E. VARIES ACCORDING TO LENGTH OF C32T2 TRUSS.
PANEL NO. ERIG SIZE 20' x 58'-11"
CONNECTION 18C & 19C SHOWN ON SHEET CD204. SPECIAL CONNECTIONS 13C, 16C, & 14C SHOWN ON SHEETS CD 209, CD 208 & CD 207 RESPECTIVELY.
TYP. EACH FLAT
STUDS W.T.C. 223.00
W.T.C. 214.00
4½"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
4'-10½"
6'-6"
6'-8"
3'-6½"
MK. A2, A3
MK. A8
MK. A1
24T8
24T8A
24T8B
24T15
14'-4½"
SEE DETAIL "D"
15'-2"
SEE DETAIL "E"
2'-7⅛"
6'-8"
13'-4"
3"
(58'-10" TRUSSES ONLY)
8¼"
8'-4"
PATCH PLATES ON BOTTOM CHORD (58'-10" TRUSSES ONLY)
3"x 2"x¼" ANGLE
A2 | 4 | ST 403
A4 | 1 | 3"x2"x¼" x 13'-3" | ST 403
A8 | 1 | ST 405
F1 | 6 | ST 402
ANGLE CLIPS
C1 | 20 | ST 400
C2 | 4 | ST 400
CONNECTION BAR
CB3 | 6 | 1⅝" ∅ x 1'-5" | ST 400
CONNECTION PLATES
P1 | 5 | 3½"x⅜"x 8½" | ST 400
P2 | 1 | 4½" x .30" x 0'-9" | ST 400
P3 | 1 | 4½" x .30" x 1'-0" | ST 400
P5 | 3 | 4½" x ¼" x 1'-6" | ST 400
P6 | 1 | 4½" x .30" x 0'-9" | ST 401
8 SHEAR ANCHOR | SA2 | 6 | #8 REBAR x 0'-9" | ST 400
PATCH PLATES
PP1 | 18 | 2" x ¼" x 0'-9" | ST 400
PP2 | 18 | 3" x ⅜" x 0'-9" | ST 400
(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE ¼" x 1" FULL THROAT FILLET.
DETAIL "A"
SECTION B-B
TOP VIEW - DETAIL "B"
DETAIL "F"
COVER PLATE
ARC WELD
SHEAR ANCHOR
2'-7½"
7'-6"
10-11,39 (NORTH)
PANEL ERIG 20' x 58'-11"
JULY 22, 1968
LACLEDE STEEL CO.
FP ERIG



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T2A	1	C32T2A - 59'-9"	ST 202A
	T3	2	C32T3 - 58'-10"	ST 203
	T9	2	C32T9 - 58'-10"	ST 209
	T10	1	C32T10 - 58'-10"	ST 210
BRIDGING TRUSSES	T8	1	24T8 - 19'-11"	ST 208
	T8A	1	24T8A - 19'-11"	ST 208A
	T8B	1	24T8B - 19'-11"	ST 208B
	T15	1	24T15 - 19'-11"	ST 215
3"x 2"x 1/4" ANGLE	A1	4	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	4	3"x 2"x 1/4" x 5'-11 [illegible]	ST 403
	A3	2	3"x 2"x 1/4" x 5'-11 [illegible]	ST 403
	A4	1	3"x 2"x 1/4" x 13'-3"	ST 403
	A8	1	3"x 2"x 1/4" x 6'-8 5/8"	ST 405
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST 303
	B	6	9" x .0135" x 15'-2"	ST 303
	E	3	9" x .0135" x 14'-4 1/2"	ST 303
ANGLE CLIPS	C1	20	2"x 1 1/2" x 1/4" x 0'-8"	ST 400
	C2	4	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 3/4"	ST 298
	DUS-3	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 3/4"	ST 298
CONNECTION BAR	CB1	1	1" ϕ x 1'-3"	ST 400
	CB2	6	1 1/8" ϕ x 1'-3"	ST 400
	CB3	6	1 3/8" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	1	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P5	3	4 1/2" x 1/4" x 1'-6"	ST 400
	P6	1	4 1/2" x .39" x 0'-4"	ST 401
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-2"	ST 400
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400

(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

REF. DRWGS.

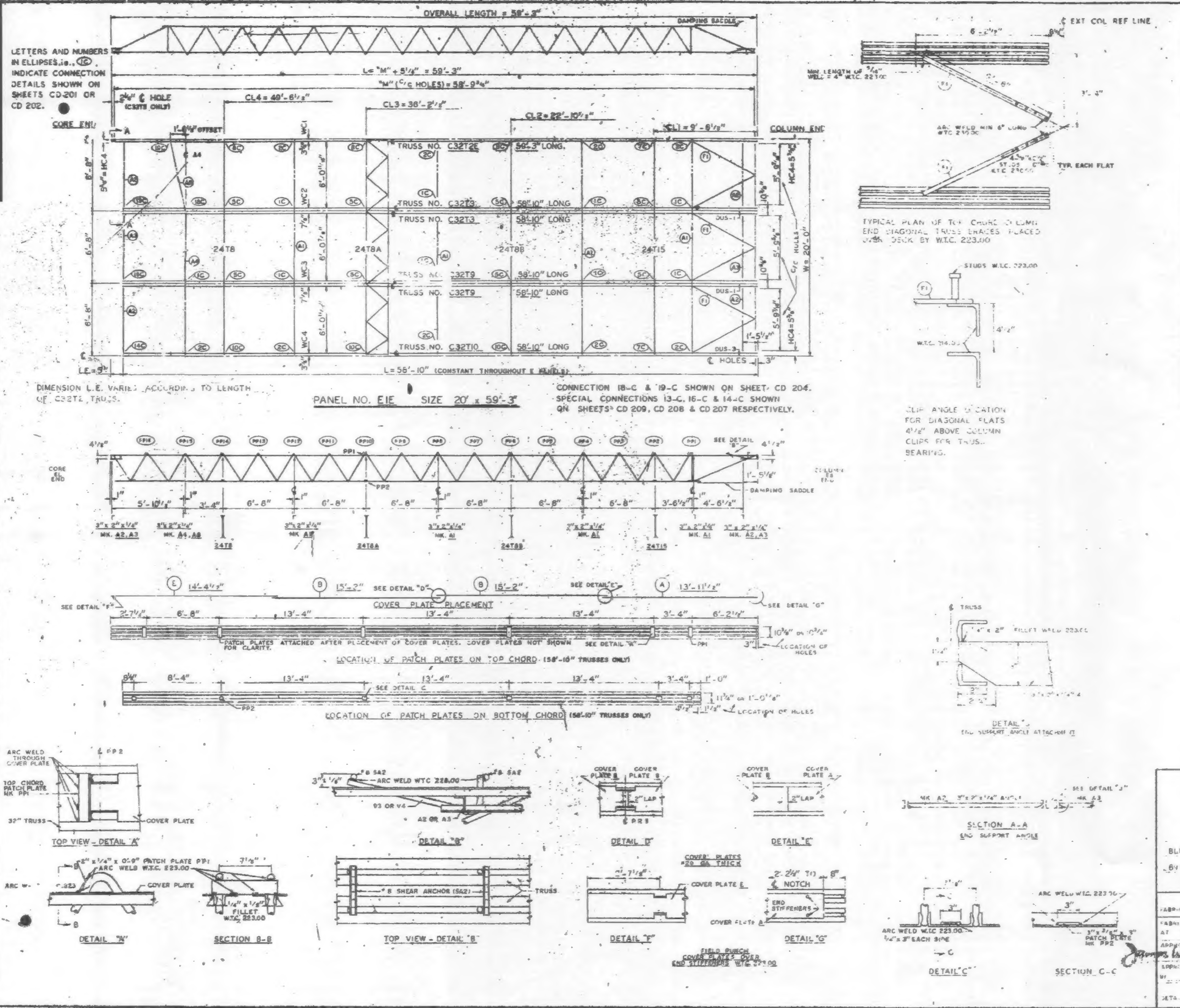
7-AB2-3 & 10	4-15-68
7-AB3-11	5-10-68
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-42	4-1-68
SA-124	10-26-68
7-AB1-3	4-15-68
7-AB1-6, 7 & 8	5-10-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH) 49-58, 60-66, 68, 69 (NORTH)
PANEL E1A - 20' x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-11 5-10-68	PLATE
APPROVED FOR FABRICATION BY: [illegible] FOR P.O.N.Y.A.	DATE 8/16/68	DRAWN BY gdc DATE JULY 22, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY: T.M. CHURA DATE JULY 22, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: A CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP E1A



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T2E	1	C32T2E - 59'-3"	ST 202E
	T3	2	C32T3 - 58'-10"	ST 200
	T9	2	C32T9 - 58'-10"	ST 209
	T10	1	C32T10 - 58'-10"	ST 210
BRIDGING TRUSSES	T8	1	24T8 - 19'-11"	ST 208
	T8A	1	24T8A - 19'-11"	ST 208A
	T8B	1	24T8B - 19'-11"	ST 208B
	T15	1	24T15 - 19'-11"	ST 215
3" x 2" x 1/4" ANGLE	A1	4	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 1/16"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 1/16"	ST 403
	A4	1	3" x 2" x 1/4" x 13'-3"	ST 403
	A8	1	3" x 2" x 1/4" x 6'-8 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-9"	ST 402
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST 303
	B	6	9" x .0135" x 15'-2"	ST 303
	E	3	9" x .0135" x 14'-4 1/2"	ST 303
ANGLE CLIPS	C1	26	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
	C2	4	2 1/2" x 1 1/2" x 1/4" x 8"	ST 400
DAMPING SADDLE	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST 298
	DUS-3	1	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST 298
CONNECTION BAR	CB1	1	1" ⌀ x 1'-3"	ST 400
	CB2	6	1 3/8" ⌀ x 1'-3"	ST 400
	CB3	6	1 5/8" ⌀ x 1'-5"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-7 1/2"	ST 400
	P2	1	4 1/2" x .34" x 1'-4"	ST 400
	P3	1	4 1/2" x .34" x 1'-0"	ST 400
	P5	3	4 1/2" x 1/2" x 1'-6"	ST 400
	P6	1	4 1/2" x .34" x 0'-3"	ST 401
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-8"	ST 400
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400

(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" x 1" FULL THROAT FILLET.

REF. DRWGS.

7-AB2-3 & 10	4-15-68
7-AB3-11	5-10-68
7-AB4-3, 3.1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-42	4-1-68
SA-124	10-20-68
7-AB1-3	4-15-68
7-AB1-6, 7 & 8	5-10-68

FLOOR PANEL DETAILS

FOR

WORLD TRADE CENTER - N.Y.C.

FOR

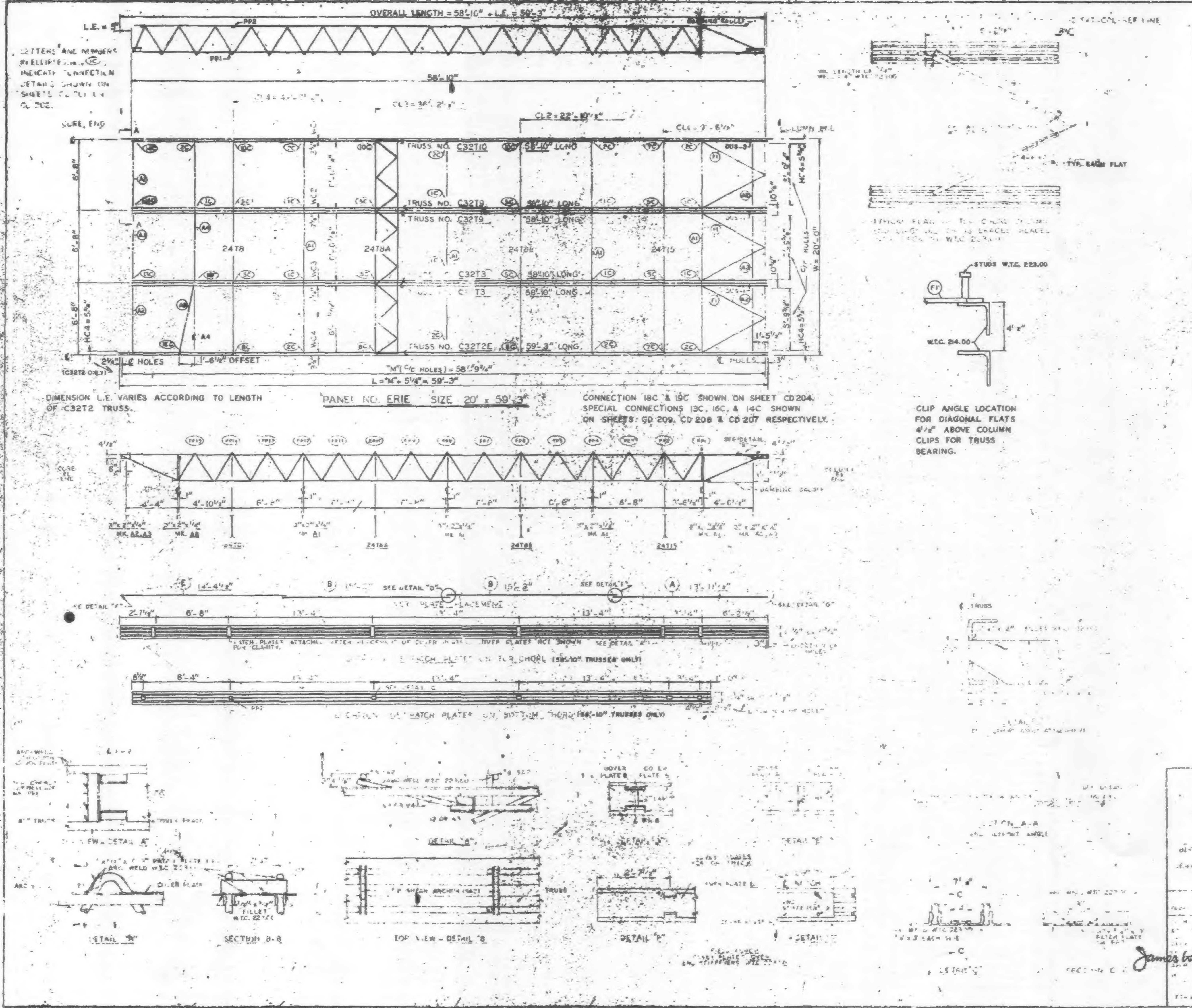
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (NORTH & SOUTH)

84 (NORTH) PANEL E1E - 20' x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-11 5-10-68	PLATE
APPROVED FOR FABRICATION FOR PONYA	DATE 8/19/68	DRAWN BY gdc DATE JULY 22, 1968	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE JULY 22, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP E1E



[illegible]				REF.
[illegible]	[illegible]	[illegible]	SIZE	DRWG.
[illegible]	LE	[illegible]	[illegible] - 59'-3	ST 202E
	3	[illegible]	[illegible] 58'-10"	ST 203
	[illegible]	[illegible]	C32T[illegible] - 58'-10"	ST 209
	[illegible]	[illegible]	C32T10 58'-10"	ST 210
[illegible]	[illegible]	[illegible]	24T8 - [illegible]	ST 208
	[illegible]8A	[illegible]	24T8A - [illegible]	ST 208A
	[illegible]8	[illegible]	24T8B [illegible]	ST 208B
	T[illegible]	[illegible]	24T15 - [illegible]	ST 215
3"x 2"x¼" ANGLE	[illegible]	6	[illegible]	ST 403
	A2	4	[illegible]	ST 403
	A3	2	[illegible]	ST 403
	A4	1	3"x2"x¼" x 13'-3"	ST 403
	A8	1	[illegible]	ST 405
DIAGONAL FLATS	F1	[illegible]	[illegible] x 8'-8"	ST 402
[illegible]	A	[illegible]	[illegible]	ST 303
	[illegible]	[illegible]	[illegible]	ST 303
	L	[illegible]	9"x 0.135" x 14'-4½"	ST 303
ANGLE CLIPS	C1	20	[illegible]	ST 400
	C2	4	[illegible]	ST 400
[illegible]	[illegible]	2	[illegible]	ST 288
	[illegible]	[illegible]	[illegible]	ST [illegible]
CONNECTION BAR	CB1	1	[illegible]	ST 402
	CB2	6	[illegible] x 1'-3"	ST 400
	CB3	6	[illegible] x 1'-5"	ST 400
CONNECTION PLATES	P1	5	[illegible]	ST 400
	P2	1	4½" x .30" x 0'-9"	ST 400
	P3	1	4½" x .30" x 1'-0"	ST 400
	P5	3	[illegible]	ST 400
	P6	1	4½" x .30" x 0'-9"	ST 401
⅜ SHEAR ANCHOR	SA2	8	[illegible] x 0'-9"	ST 400
PATCH PLATES	PP1	18	2" x [illegible] x 0'-9"	ST 400
	PP2	18	[illegible]	ST 400

(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE ¼" x 1" FULL THROAT FILLET.

[illegible] 4-15-68
[illegible] 5-10-68
[illegible] 6-6-68
[illegible] 4-11-68
[illegible] 5-20-68
[illegible] 3 4-15-68
[illegible] 6, 7 & 8 5-10-68

10-11 (SOUTH)

ERIE

[illegible] COMPANY

5-10-68

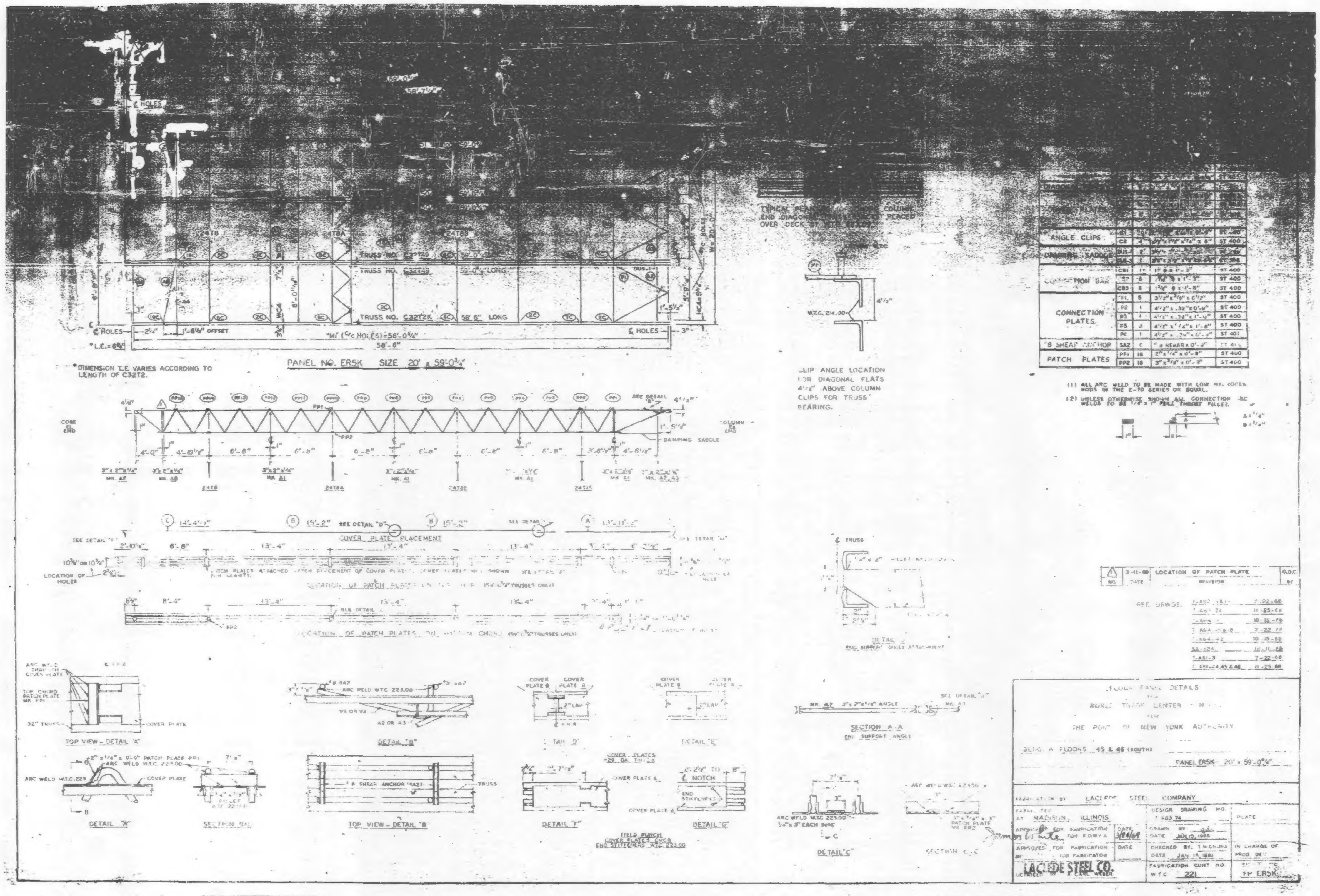
8/19/68

JULY 22, 1968

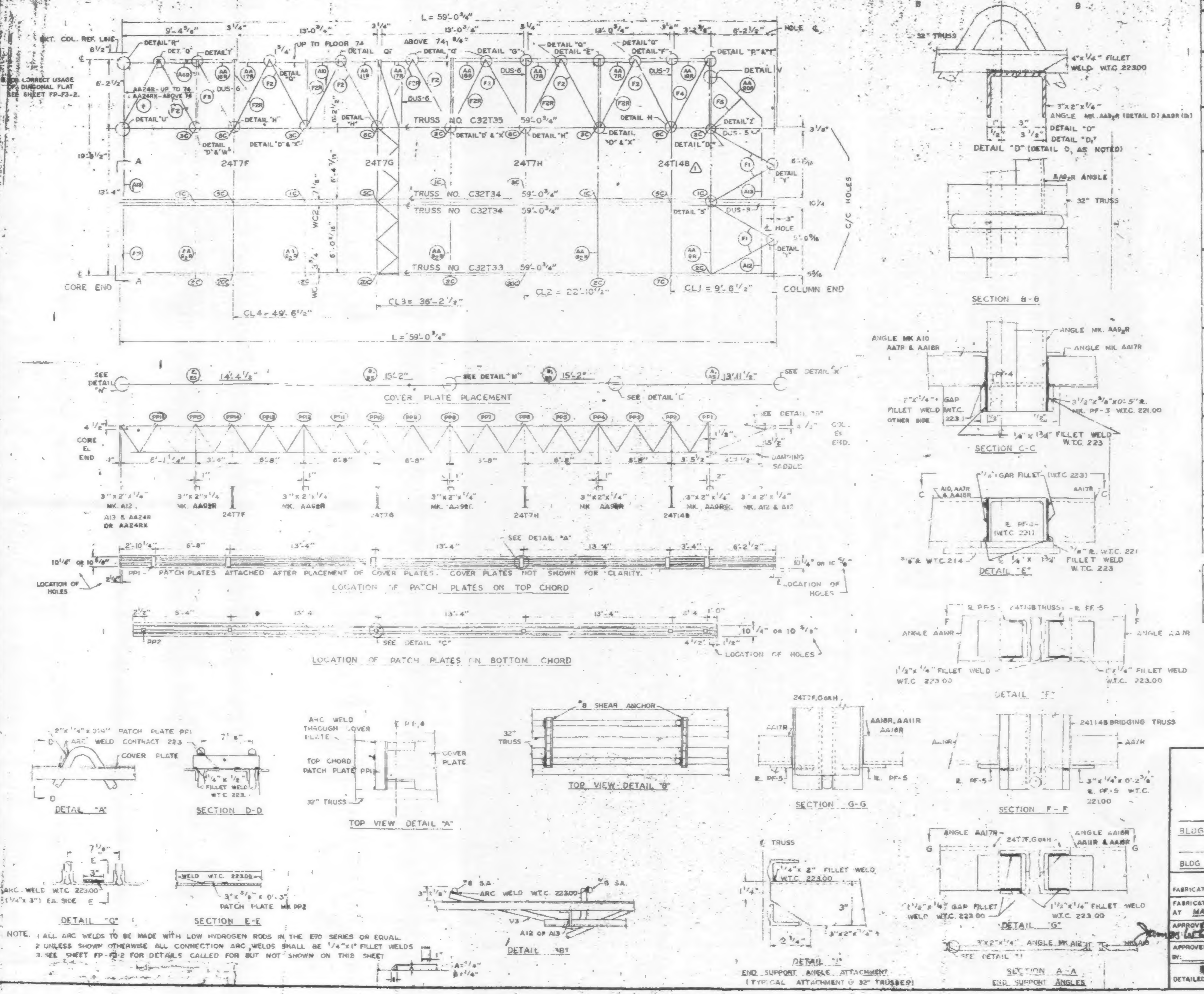
JULY 22, 1968

LACLEDE STEEL CO.

ERIE


PANEL NO. ER5K SIZE 20' x 59'-0¾"
DIMENSION "L.E." VARIES ACCORDING TO LENGTH OF C32T2.
TRUSS NO. C32T2K 58'-6" LONG
COVER PLATE PLACEMENT
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
ANGLE CLIPS
CONNECTION PLATES
PATCH PLATES
TOP VIEW - DETAIL "A"
DETAIL "A"
DETAIL "B"
TOP VIEW - DETAIL "B"
DETAIL "F"
DETAIL "G"
SECTION A-A
DETAIL "C"
LOCATION OF PATCH PLATE
WORLD TRADE CENTER
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 45 & 46 (SOUTH)
PANEL ER5K- 20' x 59'-0¾"
LACLEDE STEEL COMPANY
AT MADISON, ILLINOIS
DATE JAN 15, 1969
LACLEDE STEEL CO.
W.T.C. 221
FP ER5K

LETTERS & NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1C), SHOWN ON SHEETS CD 201, CD 202, CD 204 & CD 229.



NOTE.
1. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
2. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4"x1" FILLET WELDS
3. SEE SHEET FP-F3-2 FOR DETAILS CALLED FOR BUT NOT SHOWN ON THIS SHEET

REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	T33	1	C32T33 - 59'-0 3/4"	ST 233
	T34	2	C32T34 - 59'-0 3/4"	ST 234
	T35	1	C32T35 - 59'-0 3/4"	ST 235
BRIDGING TRUSSES	T7F	1	24T7F - 19'-6"	ST 207F
	T7G	1	24T7G - 19'-6"	ST 207G
	T7H	1	24T7H - 19'-6"	ST 207H
	T148	1	24T148 - 19'-6"	ST 2148
3"x2"x 1/4" ANGLES	A10	1	3"x2"x 1/4"x 2 [illegible] 5/16"	ST404
	A13	2	3"x2"x 1/4"x 6'-3 7/16"	ST404
	A12	2	3"x2"x 1/4"x 5-11 11/16"	ST404
	A49	1	3"x2"x 1/4"x 6'-0" [illegible]	ST413
ANGLE ASSEMBLY **(AA24R IS REPLACED BY AA24RX ABOVE FLOOR 74)	AA7R	1	SEE REF DRWG.	ST406
	AA9R	1	SEE REF. DRWG.	ST406
	AA9₂R	4	SEE REF DRWG.	ST406
	AA11R	1	SEE REF DRWG.	ST406
	AA16R	1	SEE REF DRWG.	ST406
	AA17R	3	SEE REF. DRWG.	ST406
	AA18R	1	SEE REF. DRWG.	ST400
	AA19R	1	SEE REF. DRWG.	ST400
	** AA24R	1	SEE REF. DRWG.	ST412
DIAGONAL FLATS	F1	4	1 1/2"x [illegible]"x 6'-8"	ST402
	F2 / F2R	7 / [illegible]	1 1/2"x [illegible]"x 6-10 1/2"	ST402
	F3	4	1 1/2"x 5/8"x 6'-11 1/4"	ST402
	F4	1	1 1/2"x 5/8"x 7'-0"	ST402
	F5	1	1 1/2"x [illegible]"x 4'-[illegible]"	ST402
PATCH PLATES	PP1	6	2"x 1/4"x 0'-9"	ST400
	PP2	6	3"x 3/8"x 0'-3"	ST400
COVER PLATES	A	1	9"x 0135"x 13'-11 1/2"	ST303
	B	2	9"x 0135"x 15'-2"	ST303
	E	1	9"x .0135"x 14'-4 1/2"	ST303
	AS	1	3 1/2"x .0135"x 13'-11 1/2"	ST303
	BS	2	3 1/2"x .0135"x 15'-2"	ST303
	ES	1	3 1/2"x .0135"x 14'-4 1/2"	ST303
ANGLE CLIPS	C2	4	2 1/2"x 1 1/2"x 1/4"x 0'-6"	ST 400
	C1	12	2"x 1 1/2"x 1/4"x 0'-6"	ST400
DAMPING SADDLE	DUS-3		[illegible]"x 3 1/2"x 3/8"x 3'-6 7/8"	ST299
	DUS-5	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST299
	DUS-6	3	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
	DUS-7	1	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
MISC. PLATES	PF-1	2	1 1/2"x 1 1/2"x 0'-4"	ST400
	PF-3	5	3 1/2"x 3/8"x 0'-[illegible]"	ST400
CONN. ANGLE	C5	1	3"x 2"x .37"x 0'-3"	ST 413
FLAT ASSEMBLY	FBBR	*	SEE REF DRWG.	ST 415
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400
CORNER ANGLE ASSEMBLY	AA20R	1	SEE REF. DRWG.	ST 405

NO	DATE	REVISION	BY
1 (triangle)	8-4-69	AS NOTED	[illegible]

REF. DRWG.

7-AB1-30	1-6-69	SA-124	1-6-69
7-AB1-31	1-6-69	7-AB4-14, 14.1	10-15-68
7-AB1-32	1-6-69	7-AB4-15, 16	7-22-68
7-AB2-16	1-6-69	7-AB4-21	7-22-68
7-AB2-4	1-6-69	7-AB4-23-25	7-22-68
7-AB3-41	1-6-69	7-AB4-29	1-3-68
7-AB3-52	1-6-69	7-AB4-39-41, 43	7-22-68
7-AB4-3	10-15-68	7-AB4-42	10-15-68
		7-AB4-45	12-20-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

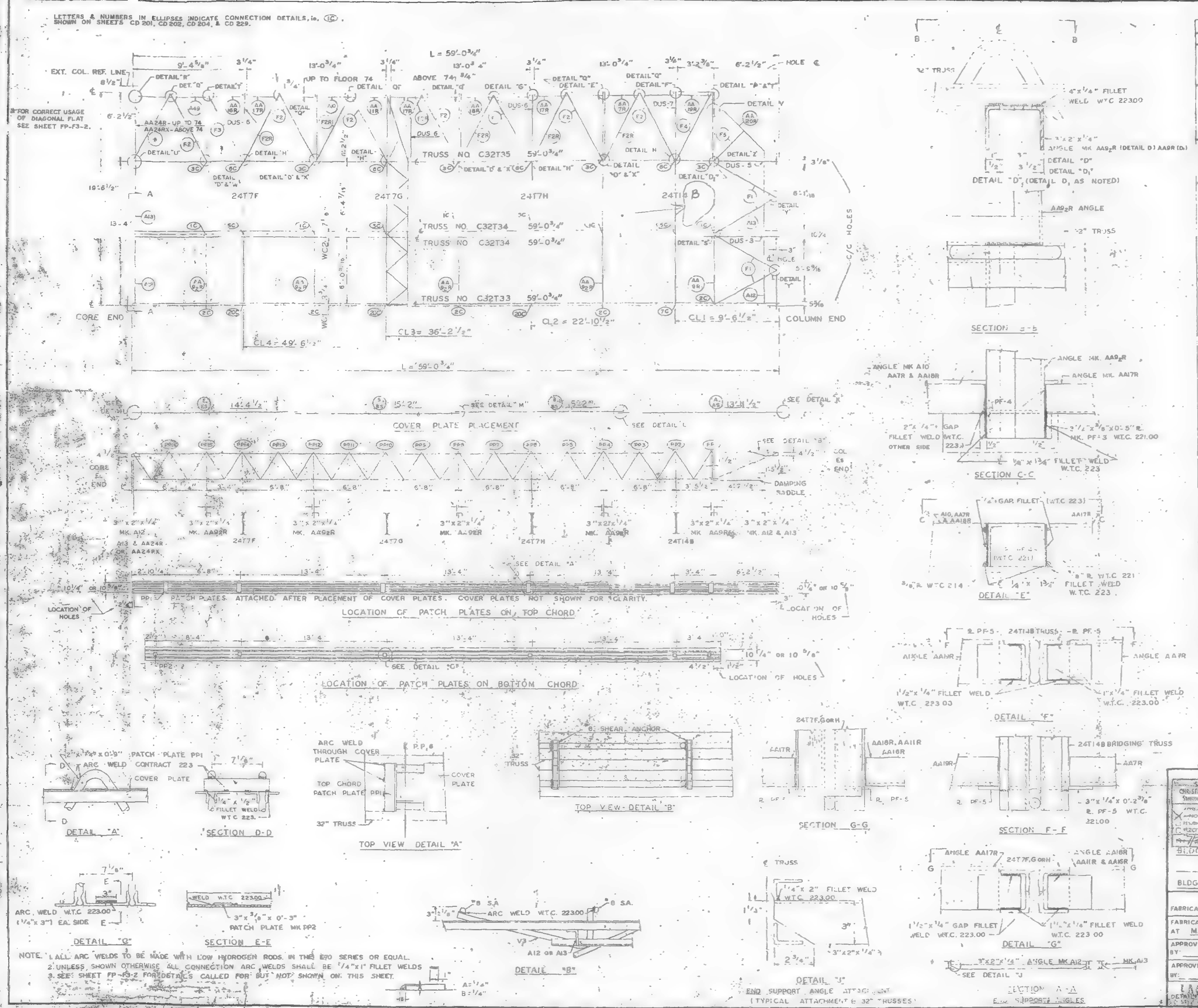
BLDG A FLOORS 78 (NORTH & SOUTH) 44 (NORTH ONLY)

PANEL FR3 19'-6" x 59'-0 3/4"

BLDG B FLOORS 44 & 78 (NORTH & SOUTH)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-52	PLATE
APPROVED FOR FABRICATION BY: [signature] FOR P.O.N.Y.A.	DATE 8/11/69	DRAWN BY: [illegible] DATE APRIL 7, 1969	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.M. [illegible]URA DATE APRIL 7, 1969	IN CHARGE OF PROD. DEV.
[redacted] DETAILED BY: A. CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-FR3



REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T33	1	C32T33 - 59'-0 3/4"	ST 233
	T34	2	C32T34 - 59'-0 3/4"	ST 234
	T35	1	C32T35 - 59'-0 3/4"	ST 235
BRIDGING TRUSSES	T7F	1	24T7F - 19'-6"	BT 207F
	T7G	[illegible]	24T7G 19'-6"	BT 207G
	T7H	1	24T7H - 19'-6"	BT 207H
	T14B	1	24T 4B - 19'-6"	BT 214B
3"x2"x 1/4" ANGLES	[illegible]	[illegible]	[illegible]	ST 414
	A 3	2	[illegible] x 1/4" x 6'-3 7/8"	ST 414
	[illegible]	2	[illegible] x 1/4" x 5'-11 11/16"	ST 404
	A45	1	3"x 2" x 1/4" x 6'-0 11/16"	ST 413
ANGLE ASSEMBLY ** (AA24R IS REPLACED BY AA24RX ABOVE FLOOR 74)	AA7R	1	SEE REF DRWG	ST 406
	AA9R	1	SEE REF DRWG	ST 406
	AA9₂R	4	SEE REF DRWG	ST 406
	AA11R		SEE REF DRWG	ST 406
	AA16R	[illegible]	SEE REF DRWG	ST 406
	AA17R	3	SEE REF DRWG	ST 406
	AA18R	1	SEE REF. DRWG	ST 400
	AA19R	[illegible]	SEE REF DRWG.	ST 400
	** AA24R	1	SEE REF. DRWG	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
	F2 / F2R	7 / 6	1 1/2" x 5/8" x 6'-10 1/2"	ST 402
	F3	[illegible]	1 1/2" x 5/8" x 6'-11 1/4"	ST 402
	F4	1	1 1/2" x 5/8" x 7'-0"	ST 402
	F5	1	1 1/2" x 5/8" x 4'-4"	ST 402
PATCH PLATES	PP	6	2" x 1/4" x 0'-9"	ST 400
	PP2	5	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	1	9 x .0135" x 13'-11 1/2"	ST 303
	B	2	9" x .0135" x 15'-2"	ST 303
	E	1	9" x .0135" x 14'-4 1/2"	ST 303
	AS	1	3 1/2" x .0135" x 13'-11 1/2"	ST 303
	BS	2	3 1/2" x .0135" x 15'-2"	ST 303
	ES		3 1/2" x .0135" x 14'-4 1/2"	ST 303
ANGLE CLIPS	C2	4	2 1/2" x 1 1/2" x 1/4" x 0'-6"	ST 400
	C1	12	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
DAMPING SADDLE	DUS-3	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-5	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 299
	DUS-6	2	3 1/2" x 3 1/2" x 3/8" x 4'-4 7/8"	ST 299
	DUS-7	1	3 1/2" x 3 1/2" x 3/8" x 4'-4 7/8"	ST 299
MISC. PLATES	PF-1	2	1 1/2" x 1/2" x 0'-4"	ST 400
	PF-3	5	3 1/2" x 3/8" x 0'-[illegible]"	ST 400
CONN. ANGLE	C5	1	3" x 2" x .37" x 0'-3"	ST 413
FLAT ASSEMBLY	F8BR	*	SEE REF DRWG	ST 415
#8 SHEAR ANCHOR	SA2	2	8 REBAR x 0'-9"	ST 400
CORNER - ANGLE ASSEMBLY	AA20R	[illegible]	SEE REF. DRWG	ST 405

NO	DATE	REVISION	BY

REF. DRWG.

7-AB1-30	1-6-69	SA-124	1-6-69
7-AB1-31	1-6-69	7-AB4-14,14.1	10-15-68
7-AB1-32	1-6-69	7-AB4-15,16	7-22-68
7-AB2-16	1-6-69	7-AB4-21	7-22-68
7-AB2-9	1-6-69	7-AB4-23-25	7-22-68
7-AB3-41	1-6-69	7-AB4-29	1-3-68
7-AB3 52	1-6-69	7-AB4-39-41,43	7-22-68
7-AB4-3	10-15-68	7-AB4-42	10-15-68
		7-AB4-45	12-20-68

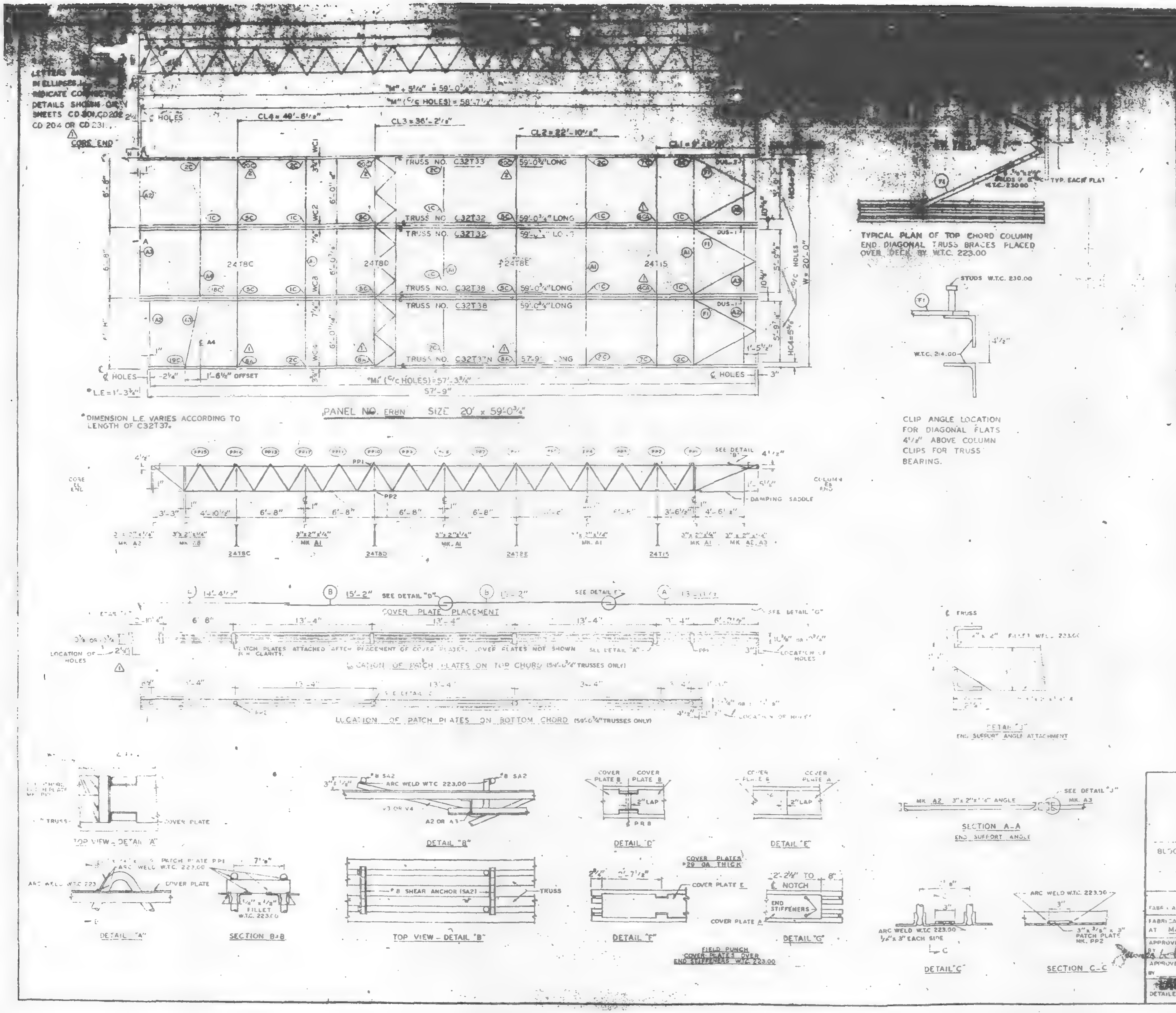
SKILLING HELLE CHRISTIANSEN ROBERTSON Structural & Civil Engineers — APPROVED / APPROVED AS NOTED / RESUBMIT / REJECTED

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 78 (NORTH & SOUTH) 44 (NORTH ONLY)
PANEL FR3 19'-6" x 59'-0 3/4"
BLDG B FLOORS 44 & 78 (NORTH & SOUTH)

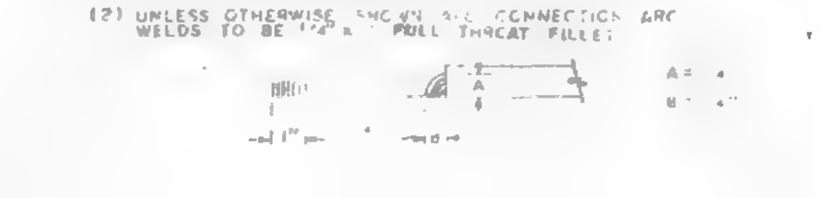
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-52	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY: DATE APRIL 7, 1969	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY. T.M.CHURA DATE APRIL 7, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. EP-FR3



MATERIAL	MK.	PCS.	SIZE	REF. DRWG.
FLOOR TRUSSES	T32	2	C32T32 - 59'-0¾"	ST 232
	T33	1	C32T33 - 59'-0¾"	ST 233
	T37N	1	C32T37N - 57'-9"	ST 237N
	T38	2	C32T38 - 59'-0¾"	ST 238
BRIDGING TRUSSES	T8C	1	24T8C - 19'-11"	ST 208C
	T8D	1	24T8D - 19'-11"	ST 208D
	T8E	1	24T8E - 19'-11"	ST 208E
	T15	1	24T15 - 19'-11"	ST 215
3" x 2" x ¼" ANGLE	A1	4	3" x 2" x ¼" x 19'-11"	ST 403
	A2	4	3" x 2" x ¼" x 5'-11"	ST 403
	A3	2	3" x 2" x ¼" x 5'-11"	ST 403
	A4	1	[illegible]	[illegible]
	A8	[illegible]	3" x 2" x ¼" x 6'-5⅜"	ST 403
DIAGONAL FLATS	[illegible]	8	[illegible]	[illegible]
COVER PLATE	A	3	x .0135" x 13'-[illegible]	ST 303
	B	8	x .0135" x 15'-2"	ST 303
	E	3	x .0135" x 4'-[illegible]	ST 303
ANGLE CLIP	C	[illegible]	2" x 1½" x ¼" x 0'-6"	ST 400
	C2	4	[illegible] x 0'-6"	ST 400
DAMPING SADDLE	[illegible]	[illegible]	[illegible] x 3'-6⅜"	ST 238
	DUS-3	[illegible]	[illegible]	[illegible]
CONNECTION BAR	CB	[illegible]	[illegible]	ST 400
	CB2	[illegible]	[illegible]	ST 400
CONNECTION PLATES	P15	6	6" x ½" x 2'-9"	[illegible]
	[illegible]	5	[illegible]	[illegible]
	F	1	[illegible]	[illegible]
	F3	1	[illegible]	[illegible]
	F5	[illegible]	[illegible]	ST 400
	PF	[illegible]	[illegible]	ST 400
#8 SHEAR ANCHOR	SA2	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	3" x ⅜" [illegible]	ST 400

(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE ¼" x FULL THROAT FILLET



△2	8-4-69	AS NOTED
△1	4-24-69	AS NOTED

... 29 & 30	1-6-69
... 33 & 34	1-6-69
7-AB2-19	1-6-69

WORLD TRADE CENTER N.Y.

THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 44 (SOUTH ONLY)

PANEL ERBN - 20' x 59'-0¾"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. AB3 61

APPROVED FOR FABRICATION FOR P.O.N.Y.A. BY [signature] DATE 8/11/69

DRAWN BY adc DATE APRIL 2, 1969

APPROVED FOR FABRICATION FOR FABRICATOR BY — DATE

CHECKED BY T.M. CH... DATE APRIL 2, 1969

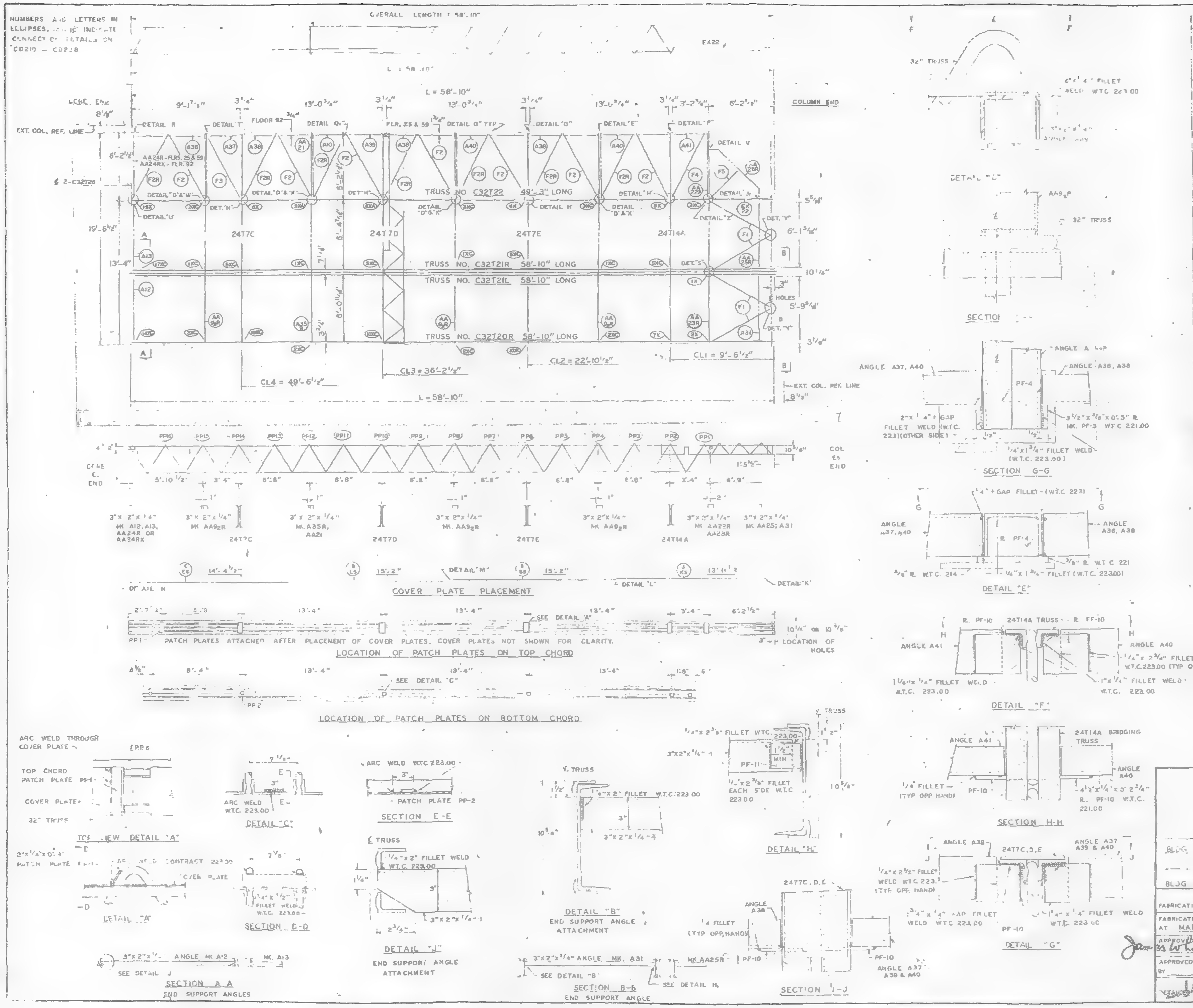
IN CHARGE OF PROD. DEV.

LACLEDE STEEL CO.

DETAILED BY A. CARL WEBER

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FP ERBN



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PC	SIZE	DR'WG
FLOOR TRUSSES	T20R		C32T20R 58'-10"	ST 220L
	21L		C32T21L - 58'-10"	ST221L
	21R		C32T21R 58'-10"	
	T22	1	C32T22 - 58'-10"	ST 222
BRIDGING TRUSSES	T7C	1	24T7C - 19'-6"	BT207C
	T7D		24T7D - 19'-6"	BT207D
	T7E		24T7E - 19'-6"	BT207E
	T14A		24T14A - 19'-6"	BT214A
3"x 2"x 1/4" ANGLES	A10		3"x2"x1/4"x 2'-7 15/16"	ST404
	A12		3"x2"x1/4"x 5'-11 11/16"	ST404
	A13		3"x2"x1/4"x 6'-3 7/16"	ST404
	A31	1	3"x2"x1/4"x 5'-8 1/8"	ST410
	A36		3"x2"x1/4"x 5'-11 1/2"	ST410
	A37		3"x2"x1/4"x 2'-0"	ST410
	A38	3	3"x2"x1/4"x 6'-4"	ST410
	A39	1	3"x2"x1/4"x 2'-9"	ST410
	A40	2	3"x2"x1/4"x 6'-2"	ST410
	A41	1	3"x2"x1/4"x 2'-10 3/4"	ST410
	A35	1	3"x2"x1/4"x 13'-3"	ST410
ANGLE ASSEMBLY	AA21	1	SEE REF. DRWG.	ST411
*(ANGLE ASSEMBLY AA24R IS REPLACED BY AA24RX ON FLOOR 92).	AA22	1	SEE REF DRWG	ST411
	AA23R	1	SEE REF DRWG	ST411
	*AA24R	1	SEE REF DRWG.	ST412
	AA25R	1	SEE REF DRWG.	ST412
	AA26R		SEE REF DRWG.	ST412
	AA9R	3	SEE REF DRWG	ST404
PATCH PLATES	PP1	6	2"x1/4"x 0'-9"	ST400
	PP2	6	3"x3/8"x 0'-3"	ST400
COVER PLATES	A	1	9"x 0.135"x 13'-11 1/2"	ST 303
	Ks	1	3 1/2"x 0.135"x 13'-11 1/2"	ST 304
	B	2	9"x 0.135"x 15'-2	ST 303
	Bs	1	3 1/2"x.0135"x 15'-2"	ST 303
	Ls	1	3 1/2"x.0135"x 15'-2"	ST304
	E	1	9"x 0.135"x 14'-4 1/2"	ST303
	Es	1	3 1/2"x.0135"x 14'-4 1/2"	ST303
ANGLE CLIPS**	C1	12	2"x 2"x .25"x 6"	ST400
	C2	3	2"x 2"x .25"x 6"	ST400
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST402
	F2 F2R	7	1 1/2"x 5/8"x 6'-10 1/2"	ST402
	F3	1	1 1/2"x 5/8"x 6'-11 1/4"	ST402
	F4		1 1/2"x 5/8"x 7'-0"	ST 402
	F5		1 1/2"x 5/8"x 4'-4"	ST 402
MISC. PLATES	PF-1	2	1 1/2"x 1/2"x 0'-4"	ST400
	PF 3	5	3 1/2"x 3/8"x 0'-5"	ST400
	PF-7	1	5"x 3/8"x 0'-4"	ST401
	PF 8	5	3 1/2"x 1/4"x 0'-2 7/8"	ST401
	PF-10	8	4 1/2"x 1/4"x 0'-2 3/4"	ST401
	PF 11	1	3"x 1/4"x 0'-2 3/8"	ST412
EXTENDED END	EX	1	SEE REF DRWG	ST 222
	22			

** NUMBER OF PIECES OF ANGLES MK. C1 & C2 AS SHOWN WILL BE CORRECT AFTER FLOOR 32, TOWER "A".

NO.	DATE	REVISION	BY

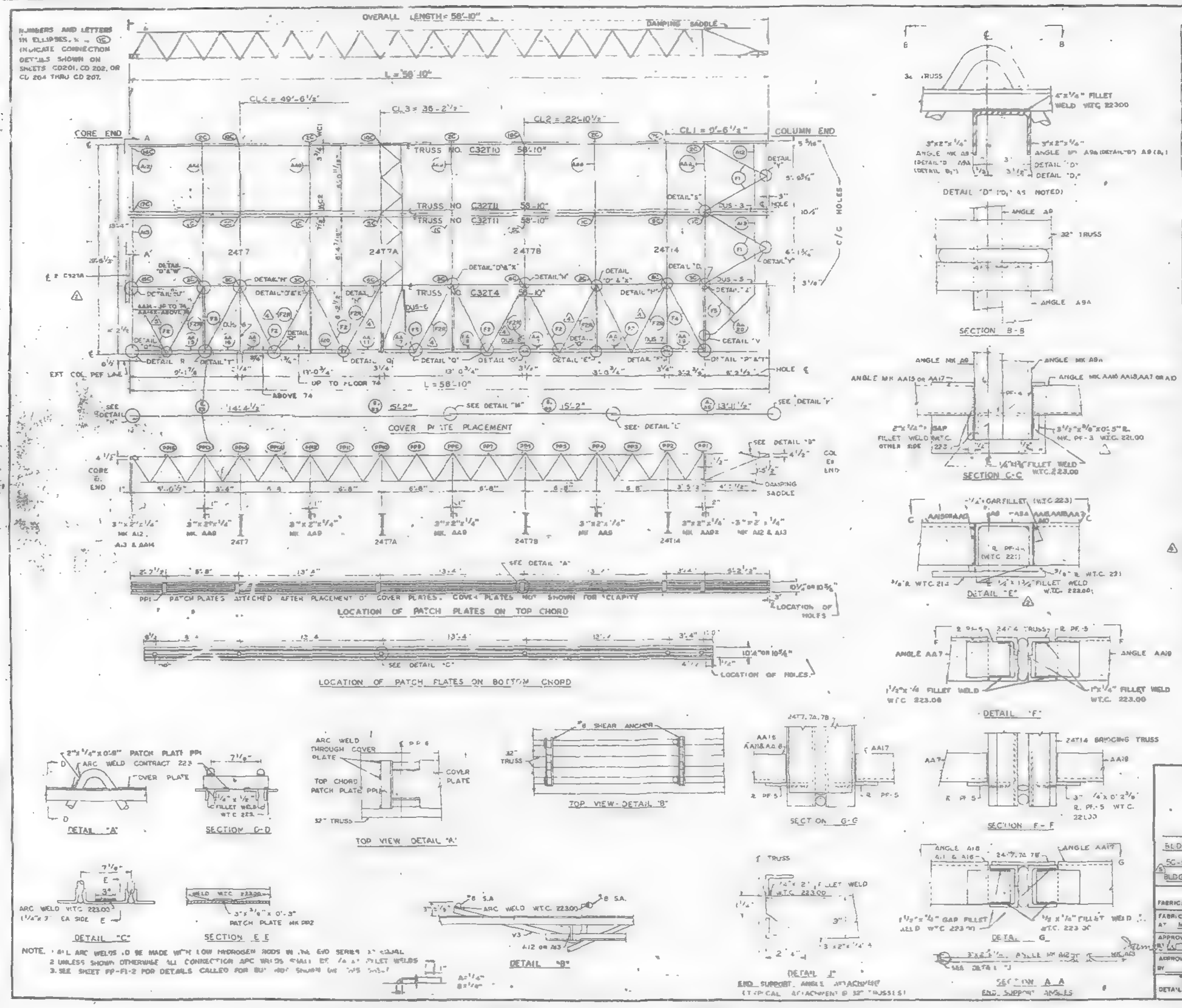
SEE SHEET FP F2 2 FOR NOTES, REF DRWG & ADDITIONAL DETAILS

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER – N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 25, 59 & 92 (NORTH & SOUTH)
PANEL FR2 19'-6" x 58'-10"
BLDG B FLOORS 25, 59 & 92 (EAST & WEST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7 AB3	PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A.	DATE 6/20/69	DRAWN BY [signature] DATE APRIL 7, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T M CHURA DATE APRIL 7, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO WTC 221	SHEET NO. FP - FR2



REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T10	1	C32T10 58'-0"	ST210
	T11	2	C32T11 58'-10"	ST211
	T4	1	C32T4 58'-10"	ST204
BRIDGING TRUSSES	T7	1	24T7 - 19'-8"	ST207
	T7A	1	24T7A - 19'-6"	ST207A
	T7B	1	24T7B - 19'-6"	ST207B
	T14	1	24T14 - 19'-6"	ST214
3"x2"x 1/4" ANGLES	A10		3"x2"x 1/4"x 2'-[illegible]	ST404
	A13	2	3"x2"x 1/4"x 16'-3 7/16"	ST404
	A12	2	3"x2"x [illegible]	ST404
ANGLE ASSEMBLY ** AA14 IS REPLACED BY AA14X ABOVE FLR 74 (5)	AA7	1	SEE REF. DRWG	ST404
	AA9	4	SEE REF. DRWG	ST404
	[illegible]		SEE REF. DRWG	ST404
	[illegible]		SEE REF. DRWG	ST404
	[illegible]		[illegible] DRWG	ST404
	[illegible]		[illegible] DRWG	ST404
	[illegible]		[illegible]	[illegible]04
	AA17	3	SEE REF. DRWG	ST404
	AA18		SEE REF. DRWG	ST404
	AA19	1	SEE REF. DRWG	ST404
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 8'-8"	ST402
(3)	F2 / F2R	7	1 1/2"x 5/8"x 8'-10 1/2"	ST402
	F3	1	1 1/2"x 5/8"x 8'-11 1/4"	ST402
	F4	1	1/2"x 3/8"x 7'-0	ST402
	F5	1	[illegible]x 4'-4	ST402
PATCH PLATES	PP1	6	2 x 1/4 x 0'-8"	ST400
	PP2	5	3"x 3/8"x 0'-8"	ST400
COVER PLATES	A	1	8"x 0.035"x 13'-11 1/2	ST303
	B	2	8"x 0.035"x 15'-2	ST303
	E	1	8"x 0.035"x 4'-4 1/2"	ST303
	A6	1	3 1/2"x 0.035"x 13'-11 1/2"	ST303
	B6	2	3 1/2"x 0.035"x 15'-2	ST303
	E6	1	3 1/2"x 0.035"x 4'-4 1/2"	ST303
ANGLE CLIPS* (4)	C2	4	2 1/2"x 1 1/2"x 1/4"x 6"	ST400
	C1	12	2"x 1 1/2"x 1/4"x 0'-6"	ST400
DAMPING SADDLE	DUS-3	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
	DUS-5	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 1/2"	ST299
	DUS-6	3	3 1/2"x 3 1/2"x 3/8"x 4'-4 3/8"	ST299
	DUS-7	[illegible]	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
MISC. PLATES	PF-1	2	1 1/2 x 1/2 x 0'-4"	ST400
	PF-2	[illegible]	5"x 3/8"x 4"	ST400
	PF-3	5	3"x 1/2"x 3/8"x 0'-[illegible]	ST400
(4) #8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-[illegible]"	ST400
CORNER ANGLE ASSEMBLY	AA20	1	SEE REF. DRWG	ST405

*CLIP ANGLE CHANGE BECOMES EFFECTIVE WITH 33RD FLOOR, TOWER "A".

NO.	DATE	REVISION	BY
5	4-24-69	AS NOTED	G.D.C.
4	3-20-69	AS NOTED*	G.D.C.
3	10-11-68	F2 & F2R	T.M.C.
2	9-30-68	AS NOTED	T.M.C.
1	9-19-68	GENERAL	T.M.C.

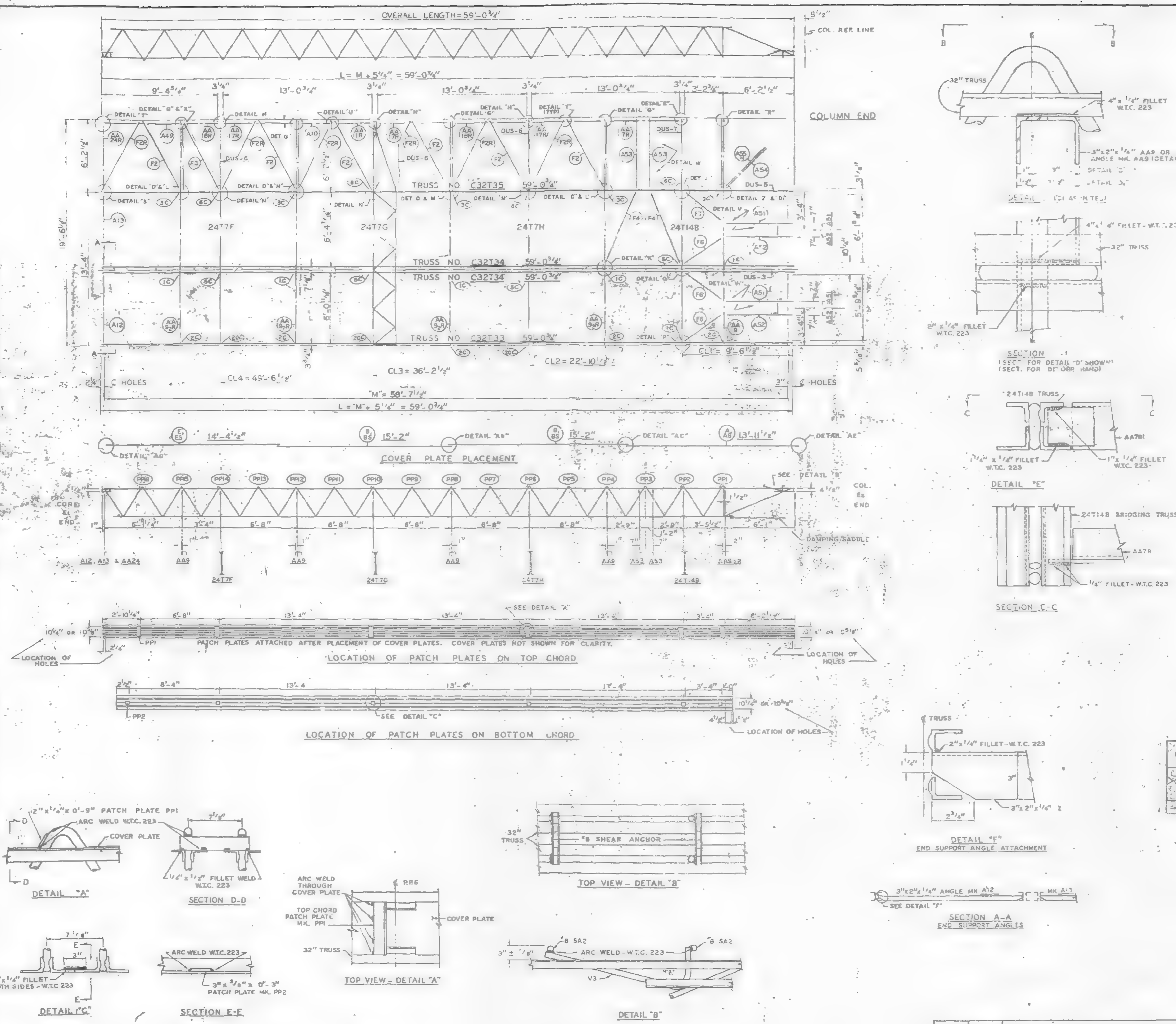
REF DRWG			
		SA 124	10-20-67
7-AB1-8	5-0-68	7-AB4-14,[illegible]	[illegible]-3-68
7-AB1-9	8-10-68	7-AB4-15,16	5-6-68
7-AB1-10	6-10-68	7-AB4-[illegible]	1-3-68
7-AB2-2	4-4-68	7-AB4-[illegible],25	4-1-68
7-AB2-9	4-1-68	7-AB4-29,35,2	4-[illegible]-68
7-AB3-2	1-3-68	7-AB4-39-41,43	1-[illegible]-68
7-AB3-13	5-[illegible]0-68	7-AB4-42	4-[illegible]-68
7-AB4-3,3[illegible],4	1-3-68	7-AB4-45,47,421	4-1-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40, 60-66, 68-74, [illegible]3-105 (NORTH & SOUTH) 50-58, 75-91 (S) 46, 58, 84, 91 (N) PANEL F1 19'-5" x 58'-10"
BLDG. B FLOORS 14-24, 26-40, 50-58, 60-74, 84-91, 93-105 (E & W) 46-49 (W) 75-[illegible] (E)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. [illegible]	PLATE
APPROVED FOR FABRICATION BY [signature] FOR P.O.N.Y.A. DATE 5/15/69	DRAWN BY [illegible] DATE JULY 5, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T.M. CHURA DATE JULY 6, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-F1



ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
SEE SHEET FP-FB-2 OR FP-FB-3 FOR DETAILS CALLED BUT NOT SHOWN ON THIS SHEET.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FILLET.
STEEL DECK NOT SHOWN IN DETAILS FOR CLARITY.

A = 1/4"
B = 1/4"

NO	DATE	REVISION	BY

25

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS.	SIZE	
FLOOR TRUSSES	T33	1	C32T33 x 59'-0 3/4"	ST 233
	T34	2	C32T34 x 59'-0 3/4"	ST 234
	T35	1	C32T35 x 59'-0 3/4"	ST 235
BRIDGING TRUSSES	T7F	1	24T7F x 19'-6"	BT 207F
	T7G	1	24T7G x 19'-6"	BT 207G
	T7H	1	24T7H x 19'-6"	BT 207H
	T14B	1	24T14B x 19'-6"	BT 214B
3"x2"x1/4" ANGLES	A10	1	3"x2"x1/4"x 2'-7 [illegible]"	ST 404
	A12	1	3"x2"x1/4"x [illegible]	ST 404
	A13	1	3"x2"x1/4"x 6'-7 7/16"	ST 404
	A49	1	3"x2"x1/4"x [illegible]	ST 413
	A51	2	3"x2"x1/4"x [illegible]	ST 413
	A52	2	3"x2"x1/4"x 6'-6"	ST 413
	A53	2	3"x2"x1/4"x 5'-10"	ST 413
	A54	1	3"x2"x1/4"x 4'-0 1/2"	ST 413
	A55R	1	3"x2"x1/4"x 4'-3"	ST 413
ANGLE ASSEMBLY	AA7R	1	SEE REF. DRWG.	ST 406
	AA9	1	SEE REF. DRWG.	ST 404
	AA9 2R	4	SEE REF. DRWG.	ST 406
	AA11R	1	SEE REF. DRWG.	ST 406
	AA16R	1	SEE REF. DRWG.	ST 406
	AA17R	3	SEE REF. DRWG.	ST 406
	AA18R	1	SEE REF. DRWG.	ST 406
	AA24R	1	SEE REF. DRWG.	ST 412
DIAGONAL FLATS	F2	6	1 1/2"x5/8"x 6'-10 1/2"	ST 402
	F2R	6	1 1/2"x5/8"x 6'-10 1/2"	ST 402
	F3	1	1 1/2"x5/8"x 6'-11 1/4"	ST 402
	F4	2	1 1/2"x5/8"x 7'-0"	ST 402
	F6	3	1 1/2"x5/8"x 4'-7"	ST 415
	F7	1	1 1/2"x5/8"x 4'-9 3/4"	ST 415
PATCH PLATES	PP1	6	2"x1/4"x 0'-9"	ST 400
	PP2	6	3"x3/8"x 0'-3"	ST 400
COVER PLATES	A	1	9"x .0135"x 13'-11 1/2"	ST 303
	B	2	9"x .0135"x 15'-2"	ST 303
	E	1	9"x .0135"x 14'-4 1/2"	ST 303
	As	1	3 1/2"x .0135"x 13'-11 1/2"	ST 303
	Bs	2	3 1/2"x .0135"x 15'-2"	ST 303
	Es	1	3 1/2"x .0135"x 14'-4 1/2"	ST 303
ANGLE CLIPS	C1	9	2"x1 1/2"x1/4"x 0'-6"	ST 400
	C2	7	2 1/2"x1 1/2"x1/4"x 0'-6"	ST 400
	C5	1	3"x2"x.37"x 0'-3"	ST 416
DAMPING SADDLE	DUS-3	1	3 1/2"x3 1/2"x3/8"x 3'-6 7/8"	ST 298
	DUS-5	1	3 1/2"x3 1/2"x3/8"x 3'-6 7/8"	ST 299
	DUS-6	3	3 1/2"x3 1/2"x3/8"x 4'-4 7/8"	ST 299
	DUS-7	1	3 1/2"x3 1/2"x3/8"x 4'-4 7/8"	ST 299
MISC. PLATES	PF-1	2	1 1/2"x1/2"x 0'-4"	ST 400
	PF-3	5	3 1/2"x3/8"x 0'-5"	ST 400
	PF-12	2	6 1/2"x1/2"x 1'-0"	ST 416
	PF-13	2	1"x1/4"x 1'-0"	ST 416
	PF-14	2	3"x1/4"x 0'-7"	ST 416
	PF-15	2	1 1/2"x1/2"x 0'-2"	ST 416
	PF-16	2	8 1/4"x1/2"x 0'-2"	ST 416
	PF-17	2	2"x1/4"x 3 1/2"	ST 416
	PF-18	3	2"x1/4"x 1'-1 3/8"	ST 416
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400

SKILLING - HELLE
CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
APPROVED
APPROVED AS NOTED
RESUBMIT
REJECTED
Date 7/3/69 By [illegible]

LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 204 & CD 229, ie. (1C)

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

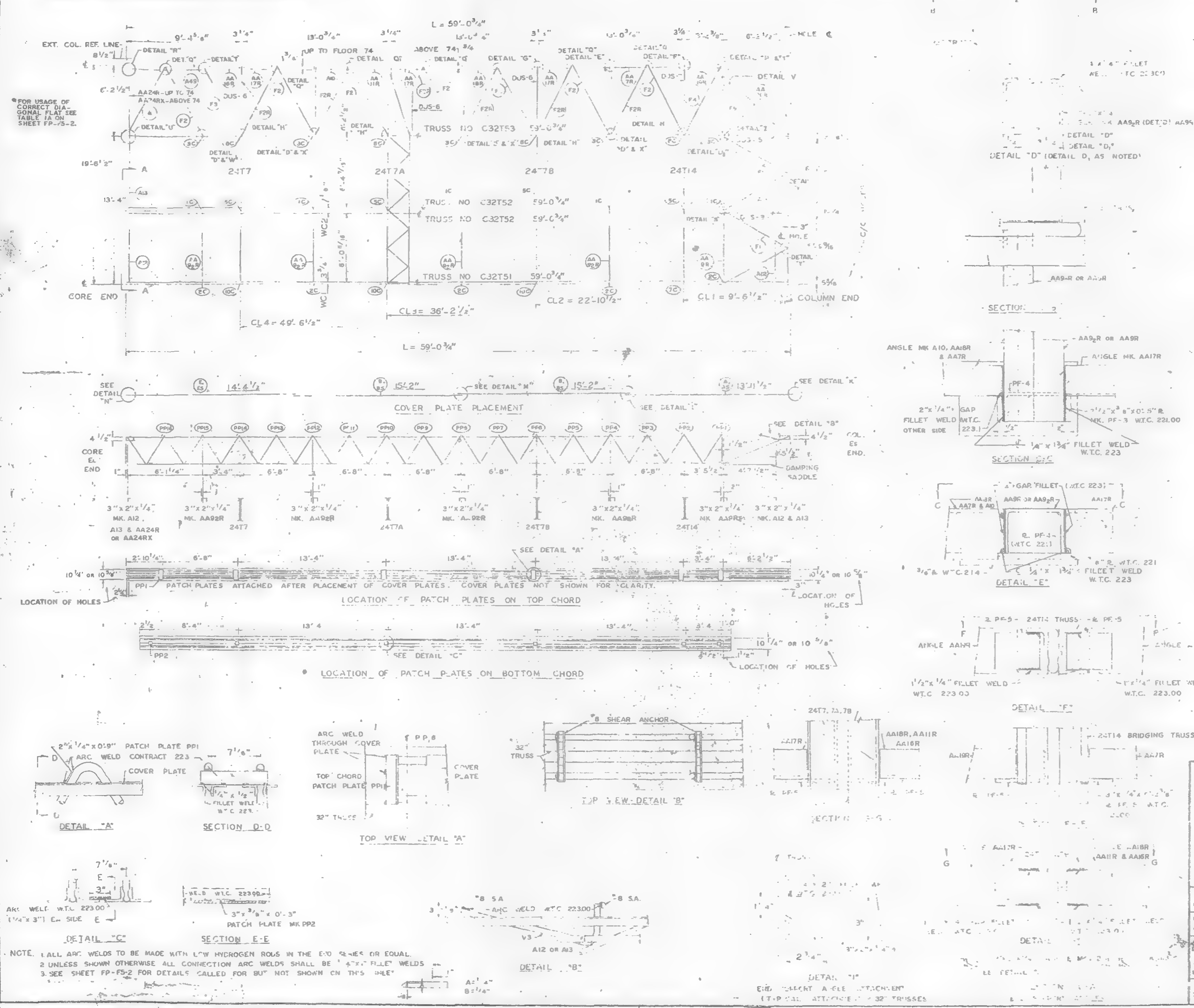
BLDG A FLOORS 44 (SOUTH)

PANEL FR8 19'-6" x 59'-0 3/4"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-A83-63	PLATE
APPROVED FOR FABRICATION BY ____ FOR P.O.N.Y.A.	DATE	DRAWN BY gdc DATE APR. 7, 1969	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE APR. 7, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO. CARL WEBER		FABRICATION CONT. NO. W.T.C 221	SHEET NO. FP-FR8

LETTERS & NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1C) SHOWN ON SHEETS CD 201, CD 202, CD 204 & CD 205 THRU CD 207.



MATERIAL	MK			REF DWG
	T51		C32T51 - 59'-0 3/4"	ST 251
	T52		C32T52 - 59'-0 3/4"	ST 252
	T53		C32T53 - 59'-0 3/4"	ST 253
BRIDGING TRUSSES	T7	1	24T7	ST 207
				ST 2 B
		2		
	A49	1	3"x 3"x 1/4"x 6'-0 11/16"	ST 413
	AA7R		SEE REF DRWG	
	AA9R	1	SEE REF DRWG	ST 406
	AA92R	4	SEE REF DRWG	
	AA11R		SEE REF DRWG	
**(AA24R IS REPLACED BY AA24RX ABOVE FLOOR 74)	AA16R		SEE REF DRWG	
	AA17R	3	SEE REF DRWG	ST 406
	AA18R	1	SEE REF DRWG.	ST 400
	AA19R	1	SEE REF DRWG.	ST 400
	AA24R	1	SEE REF. DRWG	ST 412
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 1'-8"	ST 402
	F2 / F2R	7 / 6	1 1/2"x 5/8"x 6'-10 1/2"	ST 402
	F3	1	1 1/2"x 5/8"x 6'-11 1/4"	ST 402
	F4	1	1 1/2"x 5/8"x 7'-0"	ST 402
	F5		1 1/2"x 5/8"x 4'-4"	ST 402
PATCH PLATES	PP1	6	2"x 1/4"x 0'-9"	ST 400
	PP2	5	3"x 3/16"x 0'-3"	ST 400
COVER PLATES	A	1	9"x 0135"x 13'-11 1/2"	ST 303
	B	2	9"x 0135"x 15'-2"	ST 303
	E	1	9"x 0135"x 14'-4 1/2"	ST 303
		1	3 1/2"x 0135"x 13'-11 1/2"	ST 303
		3	3 1/2"x 0135"x 15'-2"	ST 303
		1	3 1/2"x 0135"x 14'-4 1/2"	ST 303
ANGLE CLIPS	C2	4	2 1/2"x 1 1/2"x 1/4"x 0'-6"	ST 400
	C1	12	2"x 1 1/2"x 1/4"x 0'-6"	ST 400
DAMPING SADDLE			3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST 299
			3 1/2"x 3 1/2"x 3/8"x 3'-6 3/8"	ST 299
			3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST 299
			3 1/2"x 3 1/2"x 3/8"x 4'-4 3/8"	ST 299
MISC. PLATES		2	1 1/2"x 1/2"x 0'-4"	ST 400
	PF-3	6	3 1/2"x 3/8"x 0'--	ST 400
FLAT ASSEMBLY	FBAR	*	SEE REF. DRWG.	ST 415
CONN. ANGLE	C5	1	3"x 2"x .37"x 0'-3"	ST 413
"8 SHEAR ANCHOR	SA2	2	8 REBAR x 0'-9"	ST 400
CORNER ANGLE ASSEMBLY	AA20R	1	SEE REF. DRWG	ST 405

NO	DATE	REVISION	BY

REF. DWGS			
7-AB-46	11-25-68	SA-124	1-6-68
7-AB-47	11-25-68	7-AB4-14,14.1	10-15-68
7-AB-48	11-25-68	7-AB4-15,16	7-22-68
7-A92	7-22-68	7-AB4-21	7-22-68
		7-AB4-23-25	7-22-68
7-AB	7-22-68	7-AB4-29	1-3-68
7-AB-70	11-25-68	7-AB4-39-41,43	7-22-68
7-AB3-76	11-25-68	7-AB4-42	10-15-68
7-AB4-3	10-15-68		12-20-68

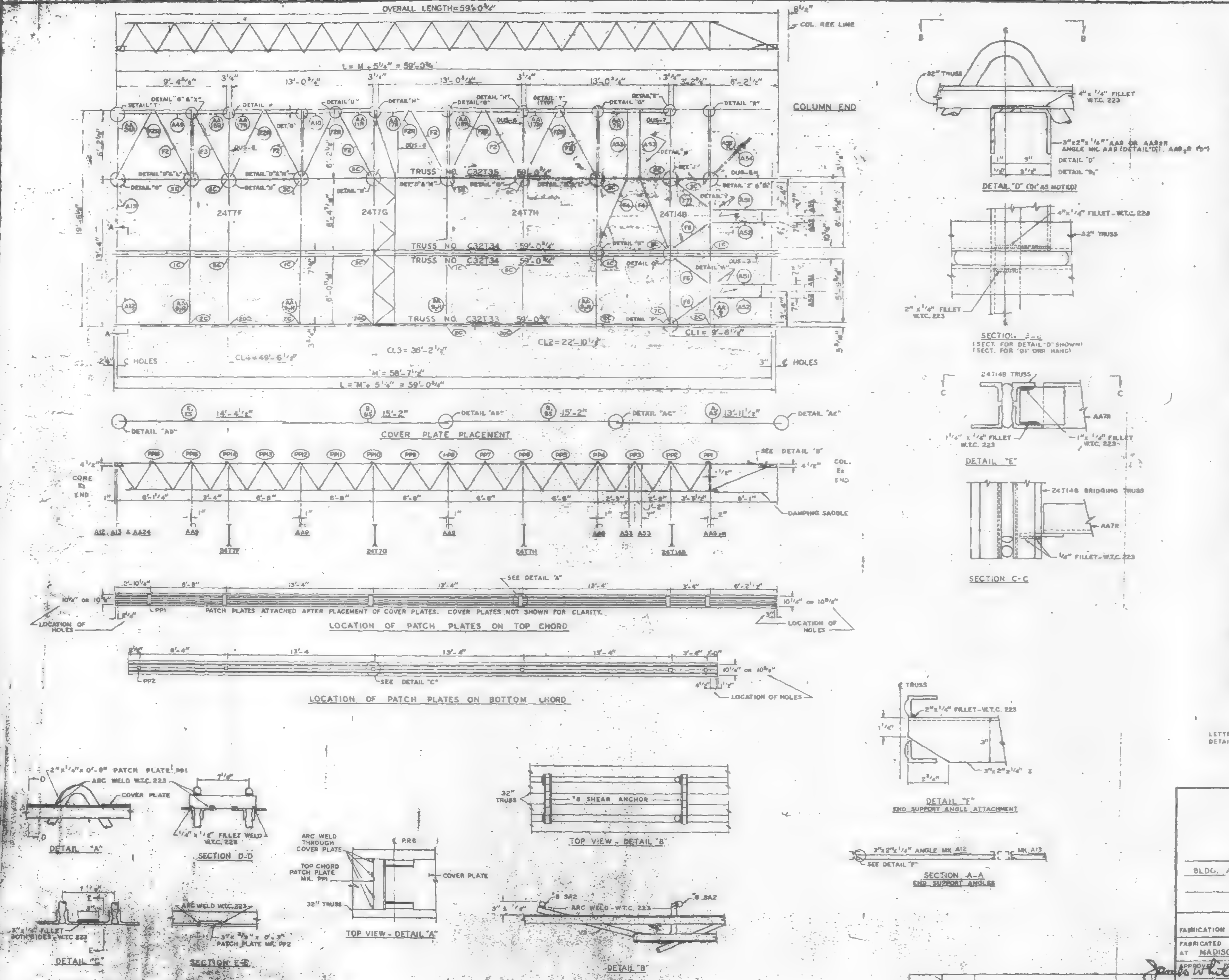
NOTE: 1. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
2. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FILLET WELDS.
3. SEE SHEET FP-FS-2 FOR DETAILS CALLED FOR BUT NOT SHOWN ON THIS SHEET.

FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

79 (NORTH & SOUTH) 45-49 (SOUTH ONLY)
80-83 (NORTH ONLY) FR5 6" x 59'-0 3/4"
BLDG. B FLOORS 79 (EAST & WEST) 45-49 (EAST ONLY) 80-83 ONLY)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-76	PLATE
APPROVED FOR FABRICATION BY FOR PONYA / DATE	DRAWN BY / DATE APRIL 9, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR / DATE	CHECKED BY / DATE APRIL 9, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER	FABRICATION CONT. NO. WTC 221	SHEET NO. FP-FR5



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T33	1	C32T33 x 59'-0 3/4"	ST 233
	T34	2	C32T34 x 59'-0 3/4"	ST 234
△1	T35	1	C32T35 x 59'-0 3/4"	ST 235
BRIDGING TRUSSES	T7F	1	24T7F x 19'-6"	BT 207F
	T7G	1	24T7G x 19'-6"	BT 207G
	T7H	1	24T7H x 19'-6"	BT 207H
	T14B	1	24T14B x 19'-6"	BT 214B
3"x2"x1/4" ANGLES	A10	1	3"x2"x1/4"x2'-7 5/16"	ST 404
	A12	1	3"x2"x1/4"x5'-11 11/16"	ST 404
	A13	1	3"x2"x1/4"x6'-3 7/16"	ST 404
	A49	1	3"x2"x1/4"x6'-0 [illegible]"	ST 413
	A51	2	3"x2"x1/4"x6'-0"	ST 413
	A52	2	3"x2"x1/4"x6'-0"	ST 413
	A53	2	3"x2"x1/4"x5'-10"	ST 413
	A54	1	3"x2"x1/4"x4'-0 1/2"	ST 413
	A55R	1	3"x2"x1/4"x4'-3"	ST 4.3
ANGLE ASSEMBLY	AA7R	1	SEE REF DRWG	ST 406
	AA9	1	SEE REF. DRWG	ST 404
	AA9₂R	4	SEE REF. DRWG	ST 406
	AA11R	1	SEE REF DRWG.	ST 406
	AA16R	1	SEE REF. DRWG	ST 406
	AA17R	3	SEE REF. DRWG	ST 406
	AA18R	1	SEE REF DRWG.	ST 406
	AA24R	1	SEE REF. DRWG.	ST 412
DIAGONAL FLATS	F2	6	1 1/2"x5/8"x6'-10 1/2"	ST 402
	F2R	6	1 1/2"x5/8"x6'-10 1/2"	ST 402
	F3	1	1 1/2"x5/8"x6'-11 1/4"	ST 402
	F4	2	1 1/2"x[illegible]"x7'-0"	ST 402
	F6	3	1 1/2"x5/8"x4'-7"	ST 415
	F7	1	1 1/2"x5/8"x4'-9 3/4"	ST 415
PATCH PLATES	PP1	6	2"x1/4"x0'-9"	ST 400
	PP2	6	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	1	9"x.0135"x13'-11 1/2"	ST 303
	B	2	9"x.0135"x15'-2"	ST 303
	E	1	9"x.0135"x14'-4 1/2"	ST 303
	As	1	3 1/2"x.0135"x13'-11 1/2"	ST 303
	Bs	2	3 1/2"x.0135"x15'-2"	ST 303
	Es	1	3 1/2"x.0135"x14'-4 1/2"	ST 303
ANGLE CLIPS	C1	9	2"x1 1/2"x1/4"x0'-6"	ST 400
	C2	7	2 1/2"x1 1/2"x1/4"x0'-6"	ST 400
	C5	1	3"x2"x.37"x0'-3"	ST 416
DAMPING SADDLE	DUS-3	1	3 1/2"x3 1/2"x3/8"x3'-6 [illegible]"	ST 298
	DUS-5	1	3 1/2"x3 1/2"x3/8"x3'-6 [illegible]"	ST 299
	DUS-6	3	3 1/2"x3 1/2"x3/8"x4'-4 [illegible]"	ST 1299
	DUS-7	1	3 1/2"x3 1/2"x3/8"x4'-4 [illegible]"	ST 299,
MISC. PLATES	PF-1	2	1 1/2"x1/2"x0'-4"	ST 400
	PF-3	5	3 1/2"x3/8"x0'-5"	ST 400
	PF-12	2	6 1/2"x1 1/2"x1'-0"	ST 416
	PF-13	2	1"x1/4"x1'-0"	ST 416
	PF-14	2	3"x1/4"x0'-7"	ST 416
	PF-15	2	1 1/2"x1/2"x0'-2"	ST 416
	PF-16	2	6 1/4"x1/2"x0'-2"	ST 416
	PF-17	2	2"x1/4"x3 1/2"	ST 416
	PF-18	3	2"x1/4"x1'-1 3/8"	ST 416
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400

LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 204 & CD 229, ie (1C)

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. SEE SHEET FP-FB- OR FP-FB-3 FOR DETAILS CALLED BUT NOT SHOWN ON THIS SHEET. UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 3/16"x1/4" FILLET. STEEL DECK NOT SHOWN ON DETAILS FOR CLARITY.

A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
1	8-4-69	AS NOTED	GWC

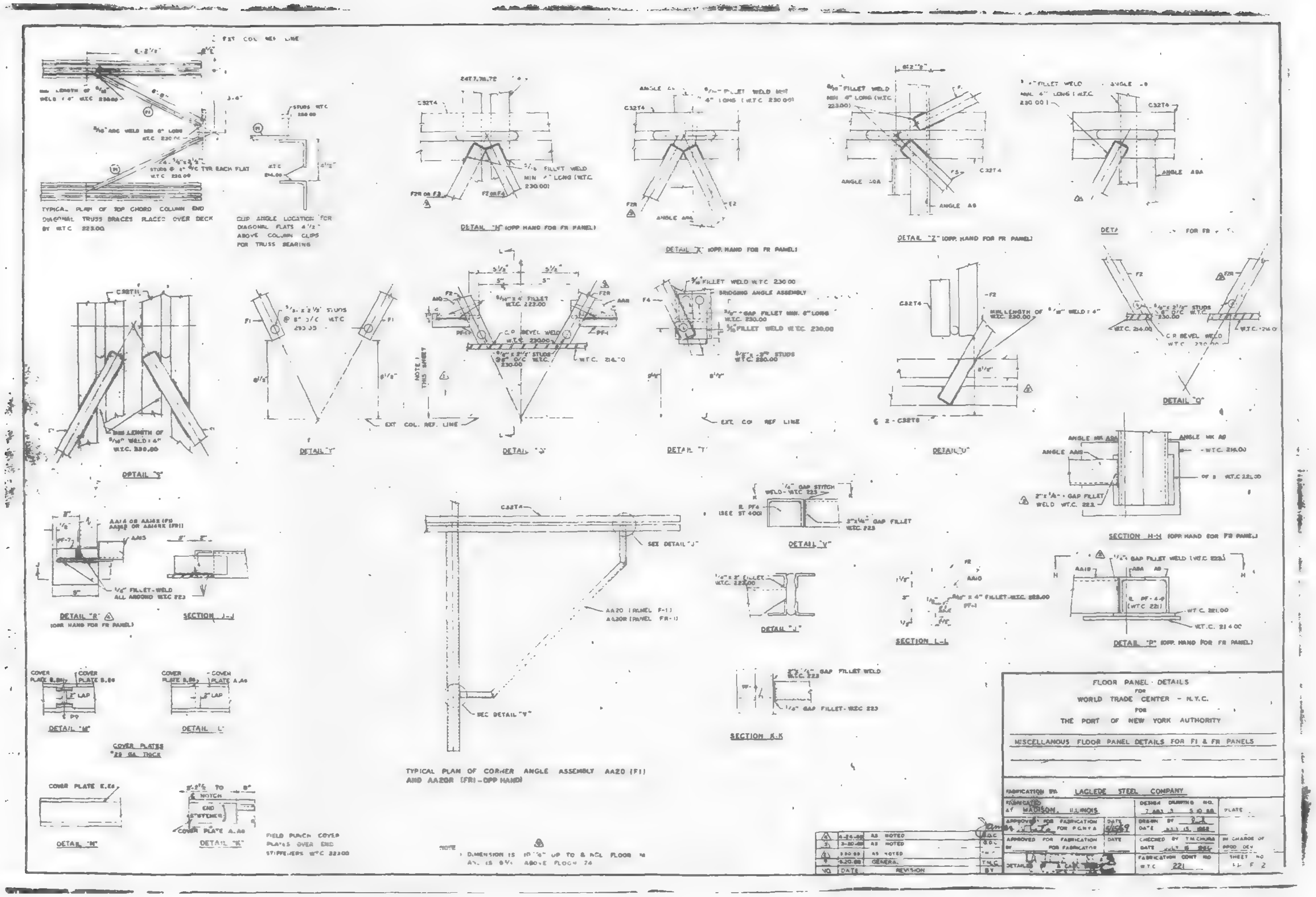
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

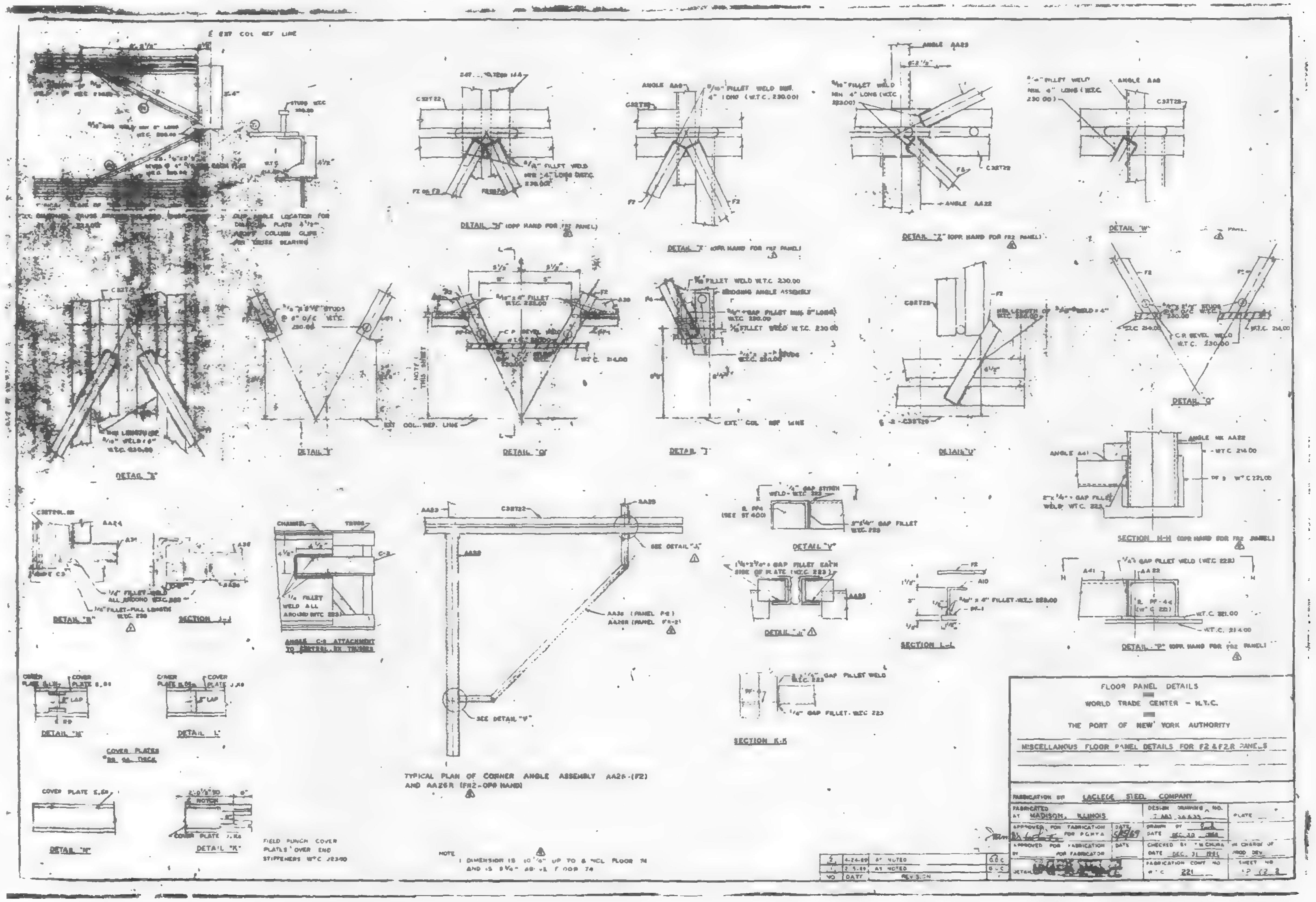
BLDG. A FLOORS 44 (SOUTH)

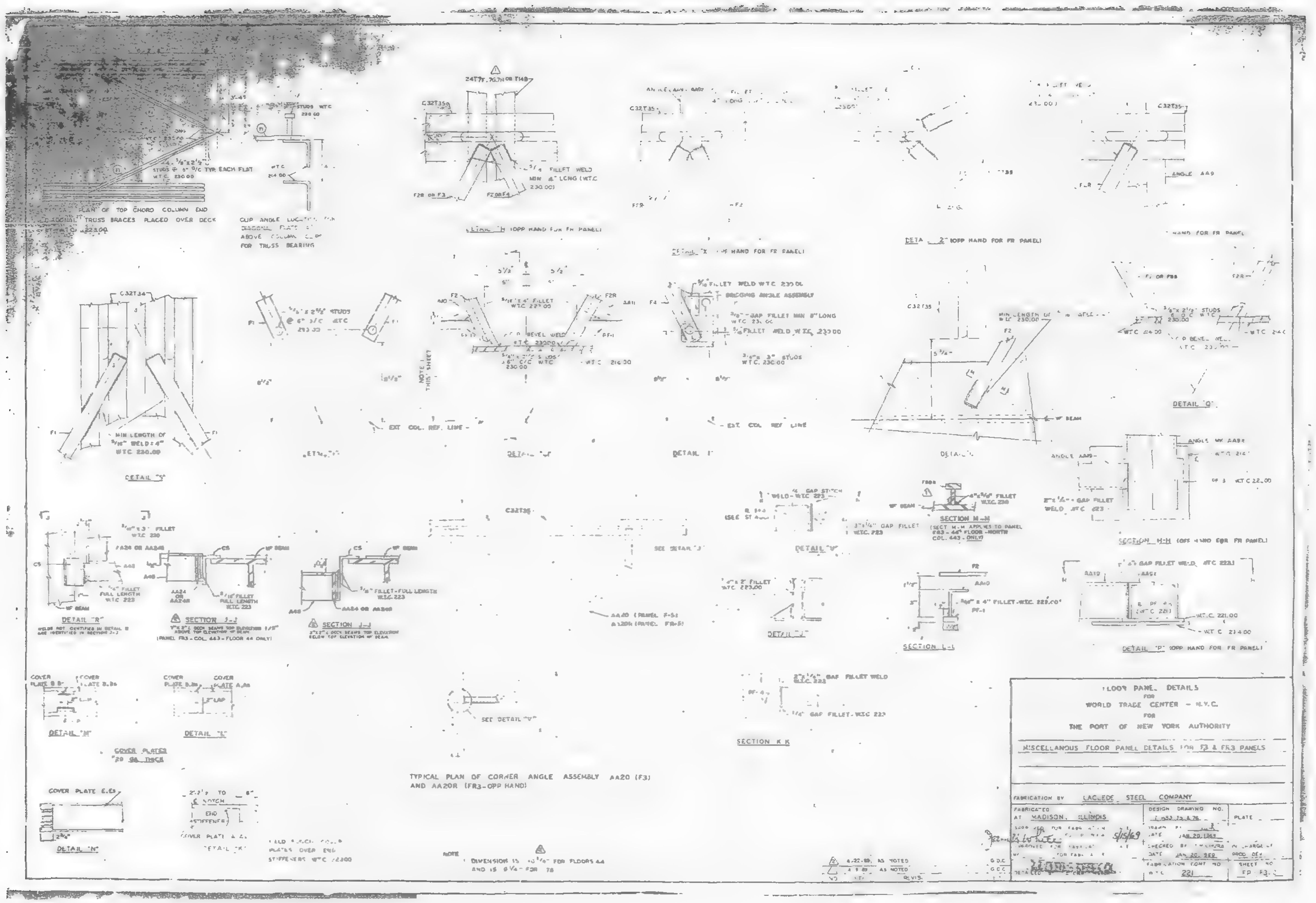
PANEL FR8 19'-6" x 59'-0 3/4"

FABRICATION BY: LACLEDE STEEL C[illegible]

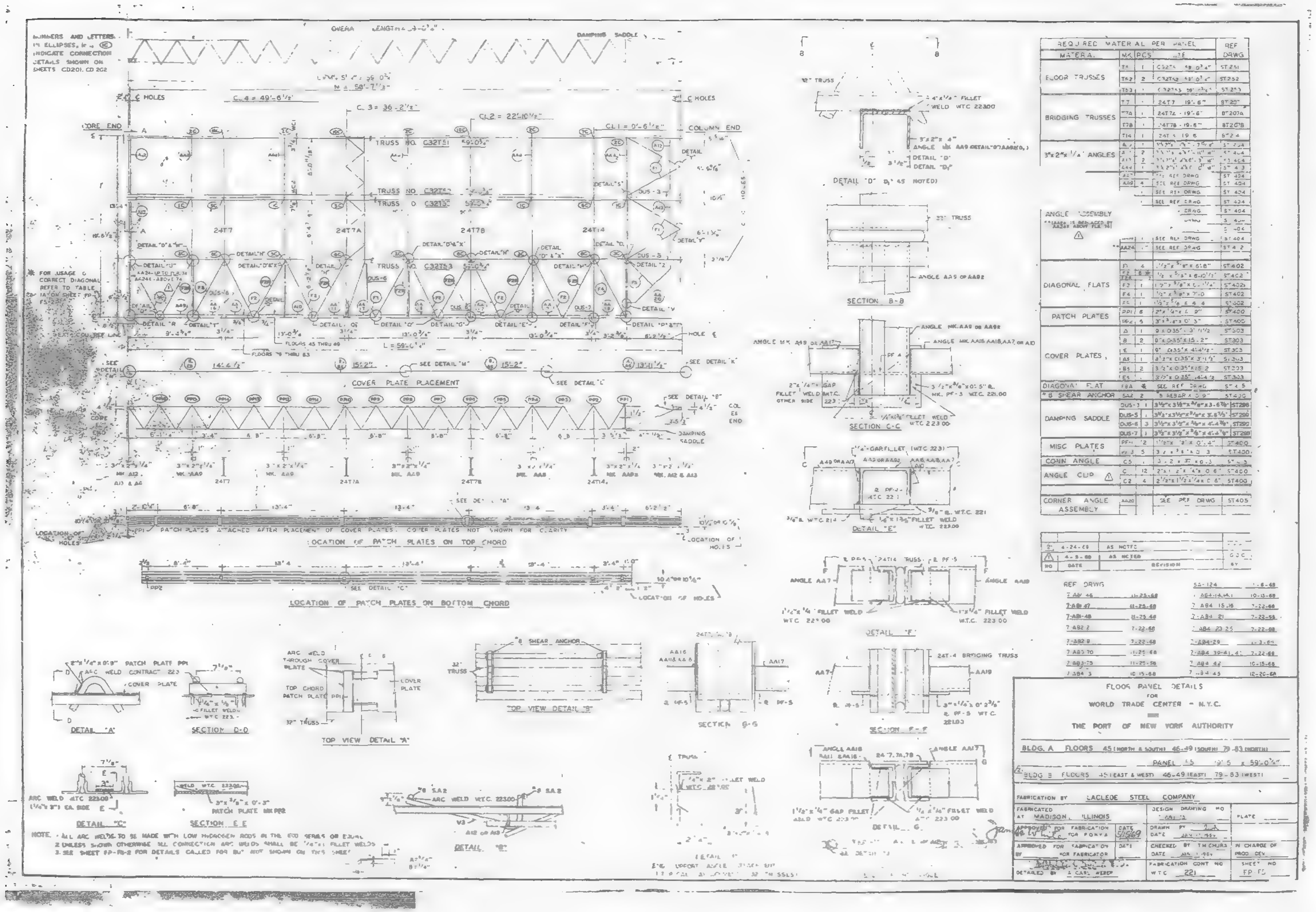
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-A83-63	PLATS
APPROVED FOR FABRICATION FOR PONYA James White	DATE 8/11/69	DRAWN BY gdc DATE APR. 7, 1969	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE APR. 7, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY [redacted]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-FR8

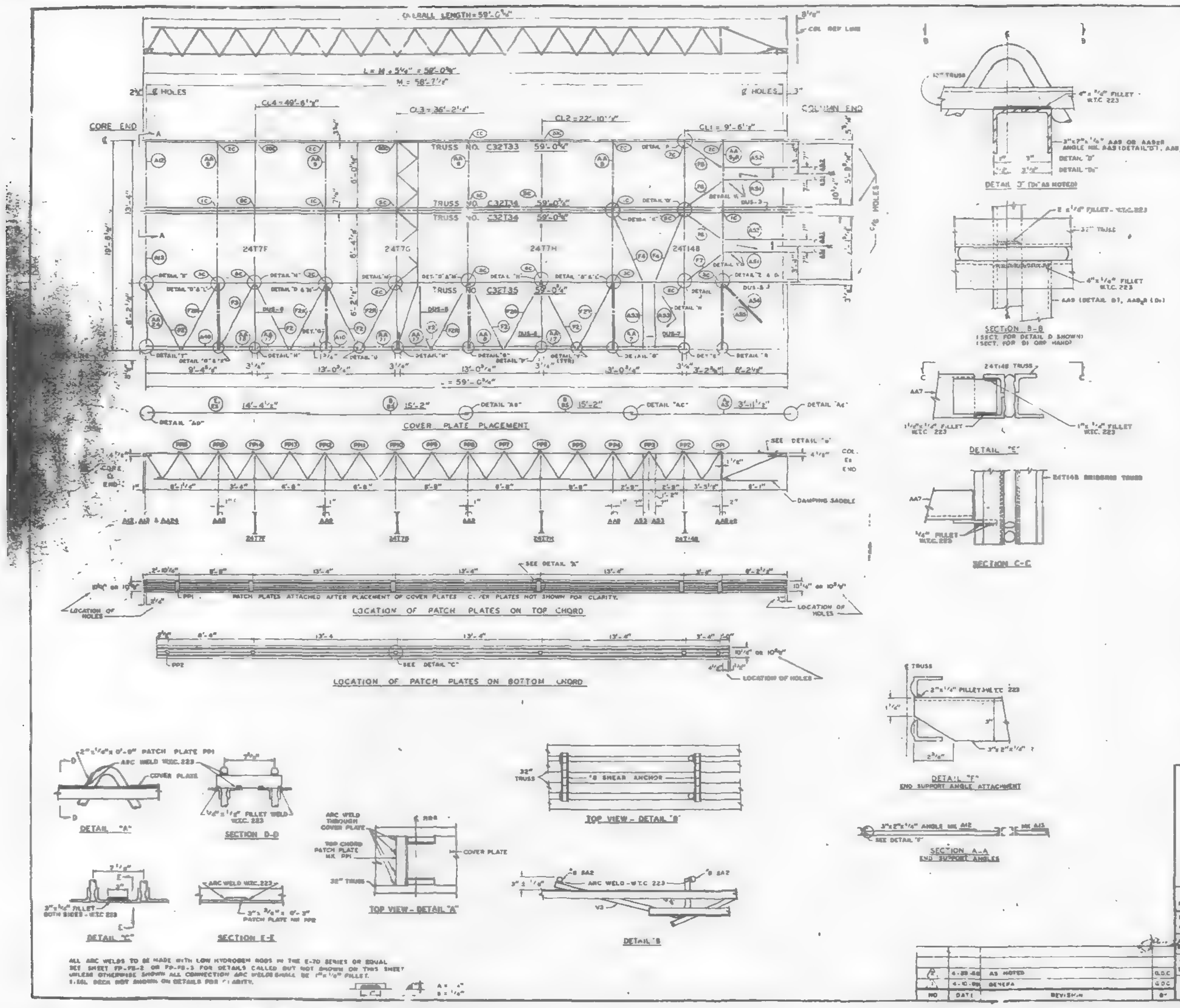

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
MISCELLANOUS FLOOR PANEL DETAILS FOR FI & FR PANELS
LACLEDE STEEL COMPANY
MADISON, ILLINOIS
TYPICAL PLAN OF CORNER ANGLE ASSEMBLY AA20 (FI) AND AA20R (FR1-OPP HAND)
DETAIL "N" (OPP HAND FOR FR PANEL)
DETAIL "Z" (OPP HAND FOR FR PANEL)
DETAIL "P" (OPP HAND FOR FR PANEL)
SECTION K-K
SECTION L-L
COVER PLATES
WTC 221


FLOOR PANEL DETAILS
WORLD TRADE CENTER - N.Y.C.
THE PORT OF NEW YORK AUTHORITY
MISCELLANOUS FLOOR PANEL DETAILS FOR F2 & F2R PANELS
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR PONYA
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE DEC. 31 1968
FABRICATION CONT NO W.T.C. 221
SHEET NO
2 4-24-69 AS NOTED
1 2-5-69 AS NOTED
NO DATE REVISION
TYPICAL PLAN OF CORNER ANGLE ASSEMBLY AA26-(F2) AND AA26R (F2R-OPP HAND)
DETAIL "B"
DETAIL "I"
DETAIL "D"
DETAIL "J"
DETAIL "U"
DETAIL "G"
DETAIL "X" (OPP HAND FOR F2R PANEL)
DETAIL "Y" (OPP HAND FOR F2R PANEL)
DETAIL "Z" (OPP HAND FOR F2R PANEL)
DETAIL "W"
DETAIL "V"
DETAIL "A"
DETAIL "P" (OPP HAND FOR F2R PANEL)
SECTION H-H (OPP HAND FOR F2R PANEL)
SECTION J-J
SECTION L-L
SECTION K-K
DETAIL "M"
DETAIL "L"
DETAIL "N"
DETAIL "K"
COVER PLATES
ANGLE C-8 ATTACHMENT TO CENTRAL BX TRUSSES
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
NOTE
1 DIMENSION IS 10'-0" UP TO & INCL FLOOR 74



PLAN OF TOP CHORD COLUMN END
DIAGONAL TRUSS BRACES PLACED OVER DECK
CLIP ANGLE LOCATION
FOR TRUSS BEARING
DETAIL "Q"
SECTION M-M
SECTION H-H (OPP HAND FOR FR PANEL)
DETAIL "R"
SECTION J-J
DETAIL "P" (OPP HAND FOR FR PANEL)
SECTION L-L
SECTION K-K
DETAIL "M"
DETAIL "L"
COVER PLATES
COVER PLATE E-E1
DETAIL "N"
TYPICAL PLAN OF CORNER ANGLE ASSEMBLY AA20 (F3) AND AA20R (FR3-OPP HAND)
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
MISCELLANOUS FLOOR PANEL DETAILS FOR F3 & FR3 PANELS
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO.
PLATE
DATE JAN. 20, 1969
CHECKED BY
DATE JAN. 20, 1969
5/15/69
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-F3-2


LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
COVER PLATE PLACEMENT
DETAIL "A"
SECTION D-D
TOP VIEW DETAIL "A"
TOP VIEW DETAIL "B"
DETAIL "C"
SECTION E-E
DETAIL "B"
SECTION B-B
SECTION C-C
DETAIL "E"
DETAIL "F"
REQUIRED MATERIAL PER PANEL
FLOOR TRUSSES
BRIDGING TRUSSES
DIAGONAL FLATS
PATCH PLATES
COVER PLATES
DAMPING SADDLE
MISC PLATES
CONN ANGLE
CORNER ANGLE ASSEMBLY
REF DRWG
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 45 (NORTH & SOUTH) 46-49 (SOUTH) 79-83 (NORTH)
PANEL 15
BLDG B FLOORS 45 (EAST & WEST) 46-49 (EAST) 79-83 (WEST)
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR PONYA
DATE 5/15/69
APPROVED FOR FABRICATION BY FOR FABRICATOR
DETAILED BY
CHECKED BY
IN CHARGE OF PROD DEV
FABRICATION CONT NO WTC 221
SHEET NO FP-F5



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS.	SIZE	
FLOOR TRUSSES	T33	1	C32T33 x 59'-0 3/4"	ST 233
	T34	2	C32T34 x 59'-0 3/4"	ST 234
	T35	1	C32T35 x 59'-0 3/4"	ST 235
BRIDGING TRUSSES	T7F	1	24T7F x 19'-6"	ST 207F
	T7G	1	24T7G x 19'-6"	ST 207G
	T7H	1	24T7H x 19'-6"	ST 207H
	T14B	1	24T14B x 19'-6"	ST 214B
[illegible] x 1/4" ANGLES	A10	1	[illegible]	ST 404
	A12	1	[illegible]	ST 404
	A13	1	3"x2"x1/4"x6'-3 1/4"	ST 404
	A46	1	[illegible]	ST 413
	A51	2	3"x2"x1/4"x6'-0"	ST 413
	A52	[illegible]	[illegible]	ST 413
	A53	2	[illegible]	ST 413
	[illegible]	[illegible]	[illegible]	ST 413
	[illegible]	[illegible]	[illegible]	ST 413
ANGLE ASSEMBLY	[illegible]	[illegible]	[illegible]	ST 404
	[illegible]	4	SEE REF DRWG	ST 404
	AA9,R	1	SEE REF DRWG	ST 404
	AA11	1	SEE REF DRWG.	ST 404
	AA14	1	SEE REF DRWG	ST 404
	AA17	3	SEE REF DRWG.	ST 404
	AA18	1	SEE REF DRWG	ST 404
	AA24	1	SEE REF. DRWG.	ST 412
DIAGONAL FLATS	F2	6	[illegible]	ST 402
	F2R	6	[illegible]	ST 402
	F3	1	[illegible]	ST 402
	F4	2	[illegible] x 7'-0"	ST 402
	F6	3	[illegible] x 4'-7"	ST 415
	F7	1	[illegible]	ST 418
PATCH PLATES	PP1	6	2"x1/4"x0'-9"	ST 400
	PP2	6	[illegible] x 0'-3"	ST 400
COVER PLATES	A	1	9" x .0135" x 13'-11 1/2"	ST 303
	B	2	9" x .0135" x 15'-2"	ST 303
	C	1	9" x .0135" x 14'-4 1/2"	ST 303
	A0	1	[illegible] x .0135" x [illegible]	ST 303
	B0	2	3 1/2" x .0135" x 15'-2"	ST 303
	C0	1	3 1/2" x .0135" x 14'-4 1/2"	ST 303
ANGLE CLIPS	C1	12	[illegible]	ST 400
	C2	4	[illegible]	ST 400
	C3	1	[illegible] x 0'-8"	ST 418
DAMPING SADDLE	[illegible]	1	[illegible]	ST 288
	[illegible]	1	[illegible]	ST 288
	[illegible]	3	[illegible]	ST 288
	[illegible]	1	[illegible]	ST 288
MISC. PLATES	PF-1	2	[illegible] x 0'-4"	ST 400
	PF-3	5	[illegible] x 0'-8"	ST 400
	PF-12	2	[illegible] x 1'-0"	ST 416
	PF-13	2	[illegible] x 1'-0"	ST 416
	PF-14	2	[illegible]	ST 416
	PF-15	2	[illegible] x 0'-2"	ST 416
	PF-16	2	[illegible] x 0-2"	ST 416
	PF-17	2	[illegible]	ST 416
	PF-18	3	[illegible]	ST 416
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400

LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 204 & CD 229, 4.

FLOOR PANEL DETAILS

WORLD TRADE CENTER - N.Y.C.

THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 44 (SOUTH)

PANEL FB 19'-6" x 59'-0 3/4"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-A83-62

PLATE

APPROVED FOR FABRICATION FOR P.O.N.Y.A.

DRAWN BY [illegible] DATE FEB. 7, 1969

APPROVED FOR FABRICATION BY FOR FABRICATOR

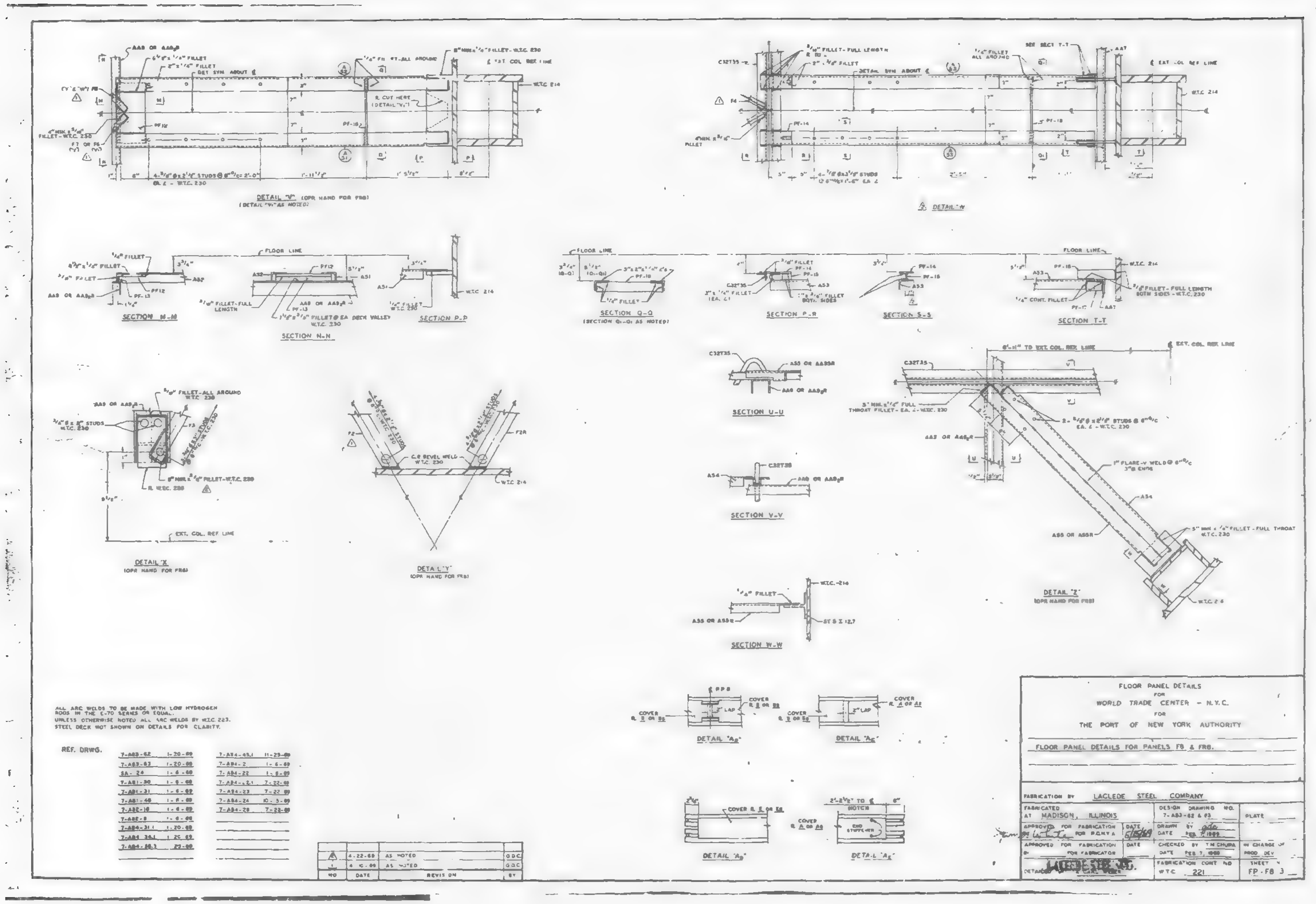
CHECKED BY T.M. CHURA DATE FEB. 7, 1969

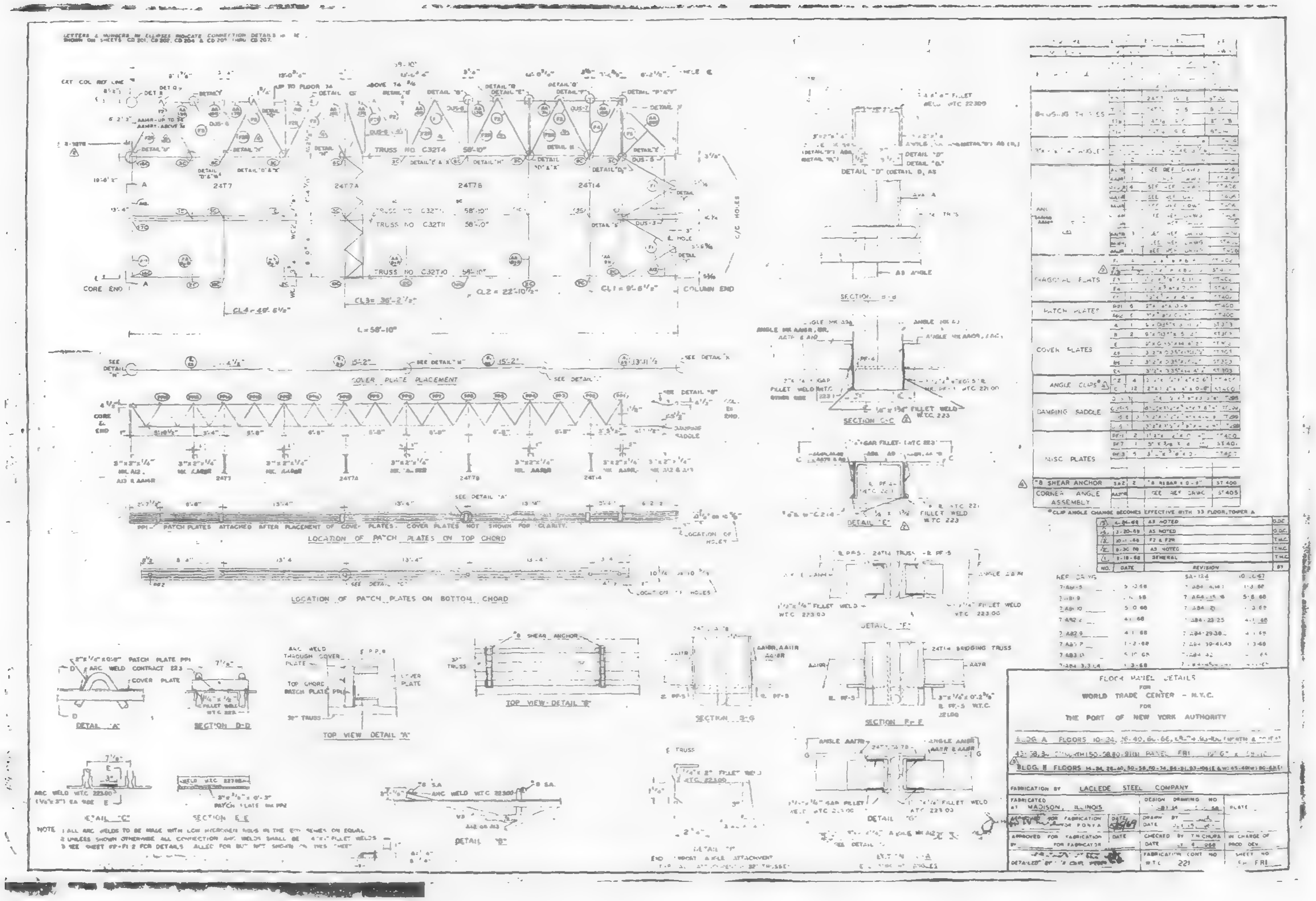
IN CHARGE OF PROD. DEV.

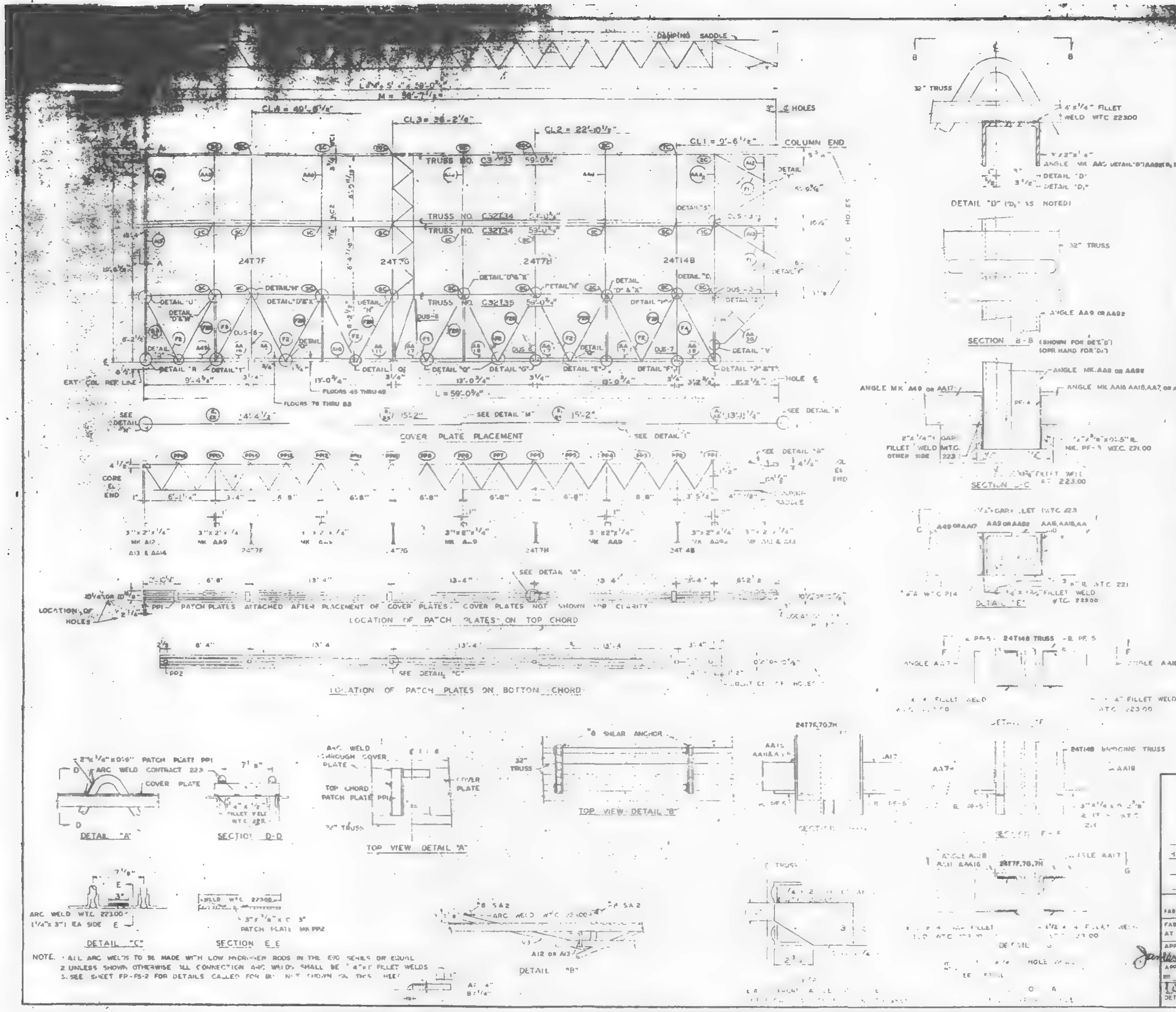
DETAILED BY A. CARL WEBER

FABRICATION CONT NO. W.T.C. 221

SHEET NO. FP-FB


DETAIL "F" (OPP. HAND FOR FR8)
DETAIL "H"
SECTION M-M
SECTION N-N
SECTION P-P
SECTION Q-Q
SECTION R-R
SECTION S-S
SECTION T-T
SECTION U-U
SECTION V-V
SECTION W-W
DETAIL "X" (OPP. HAND FOR FR8)
DETAIL "Y" (OPP. HAND FOR FR8)
DETAIL "Z" (OPP. HAND FOR FR8)
DETAIL "A2"
DETAIL "A3"
DETAIL "A4"
DETAIL "A5"
ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS OTHERWISE NOTED ALL ARC WELDS BY W.T.C. 223.
STEEL DECK NOT SHOWN ON DETAILS FOR CLARITY.
REF. DRWG.
7-A83-62 1-20-69
7-A83-63 1-20-69
SA-24 1-6-69
7-A81-30 1-6-69
7-A81-31 1-6-69
7-A81-48 1-6-69
7-A82-18 1-6-69
7-A82-8 1-6-69
7-A84-31.1 1-20-69
7-A84-34.1 1-20-69
7-A84-38.1 ...23-69
7-A84-45.1 11-25-69
7-A84-2 1-6-69
7-A84-22 1-6-69
7-A84-2.1 7-22-69
7-A84-23 7-22-69
7-A84-24 10-3-69
7-A84-28 7-22-69
4-22-69 AS NOTED GDC
4-10-69 AS NOTED GDC
NO DATE REVISION BY
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR PANEL DETAILS FOR PANELS FB & FR8.
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-62 & 63
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A.
DATE 5/15/69
DRAWN BY gdc
DATE FEB 7, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE
CHECKED BY T.H. CHURA
DATE FEB 7, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-FB 3


FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO
DRAWN BY
CHECKED BY
IN CHARGE OF PROD DEV
FABRICATION CONT NO W.T.C. 221
SHEET NO FR1
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
COVER PLATE PLACEMENT
CORE END
COLUMN END
TRUSS NO C32T4
TRUSS NO C32T10
DETAIL "A"
SECTION D-D
TOP VIEW DETAIL "A"
TOP VIEW - DETAIL "B"
SECTION B-B
SECTION F-F
SECTION C-C
DETAIL "E"
DETAIL "F"
DETAIL "G"
DETAIL "C"
SECTION E-E
BRIDGING TRUSSES
DIAGONAL PLATES
PATCH PLATES
COVER PLATES
ANGLE CLIPS
DAMPING SADDLE
MISC PLATES
SHEAR ANCHOR
CORNER ANGLE ASSEMBLY
REVISION



REQUIRED MATERIAL				
MATERIAL	[illegible]			
FLOOR TRUSSES	T33	1	[illegible]	[illegible]
	T34	2	[illegible]	[illegible]
	T35	1	C32T35 [illegible]	[illegible]
BRIDGING TRUSSES	T7F	1	24T7F [illegible]	[illegible]
	T7G	1	24T7G [illegible]	[illegible]
	T7H	1	[illegible]	[illegible]
	T14B	1	[illegible]	[illegible]
3"x2"x 1/4" ANGLES	A11	1	3"x2"x1/4"x2'-7 [illegible]	ST 404
	A12	2	3"x2"x1/4"x8'-11 [illegible]	ST 404
	A13	2	3"x2"x1/4"x8'-3 [illegible]	ST 404
	A49	1	3"x2"x1/4"x8'-0 [illegible]	ST 413
ANGLE ASSEMBLY	AA7	1	SEE REF. DRWG.	ST 404
	AA9	4	SEE REF. DRWG.	ST 404
	AA92	1	SEE REF. DRWG.	ST 404
	AA11	1	SEE REF. DRWG.	ST 404
	AA16	1	SEE REF. DRWG.	ST 404
	AA17	3	SEE REF. DRWG.	ST 404
	AA18	1	SEE REF. DRWG.	ST 404
	AA19	1	SEE REF. DRWG	ST 404
	AA24	1	SEE REF. DRWG	ST 410
DIAGONAL FLATS	F1	4	1 1/4"x 5/8"x 6'-8"	ST 402
	F2	[illegible]	[illegible] x10'1/2"	ST402
	F3	1	1 1/2"x 5/8"x 6'-11 1/4"	ST402
	F4	1	1/2"x 5/8"x 7'-0	ST402
	F5	1	1 1/2"x 5/8 x 4'-4"	ST402
PATCH PLATES	PP1	6	2"x 1/4"x 0'-9"	ST400
	PP2	5	3"x 3/8"x 0'-3"	ST400
COVER PLATES	A	1	9"x 0.135"x 13'-11 1/2	ST303
	B	2	9"x 0.135"x 15'-2"	ST303
	E	1	9"x 0.135"x 14'-4 1/2"	ST303
	A6	1	3 1/2"x 0.135"x 13'-11 1/2"	ST303
	B6	2	3 1/2"x 0.135"x 15'-2	ST303
	E6	1	3 1/2"x 0.135"x 14'-4 1/2	ST303
ANGLE CLIPS	C2	7	2 1/2"x 1 1/2"x 1/4"x 0'-6	ST 400
	C1	8	2"x 1 1/2"x 1/4"x 0'-8"	ST 400
DAMPING SADDLE	DUS-3		3 1/2"x 3 1/2"x 3/8"x 3-6 3/8"	ST290
	DUS-5	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 5/8"	ST290
	DUS-6	3	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST290
	DUS-7	1	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST290
MISC. PLATES	PF-1	2	1 1/2"x 1/2"x 0'-4"	ST400
	PF-3	5	3 1/2"x [illegible] x 0'-3"	ST400
CONN ANGLE	C5	1	3 x 2 x 3/8" x 0'-3"	ST413
CORNER ANGLE ASSEMBLY	AA20		SEE REF DRWG	ST405
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400

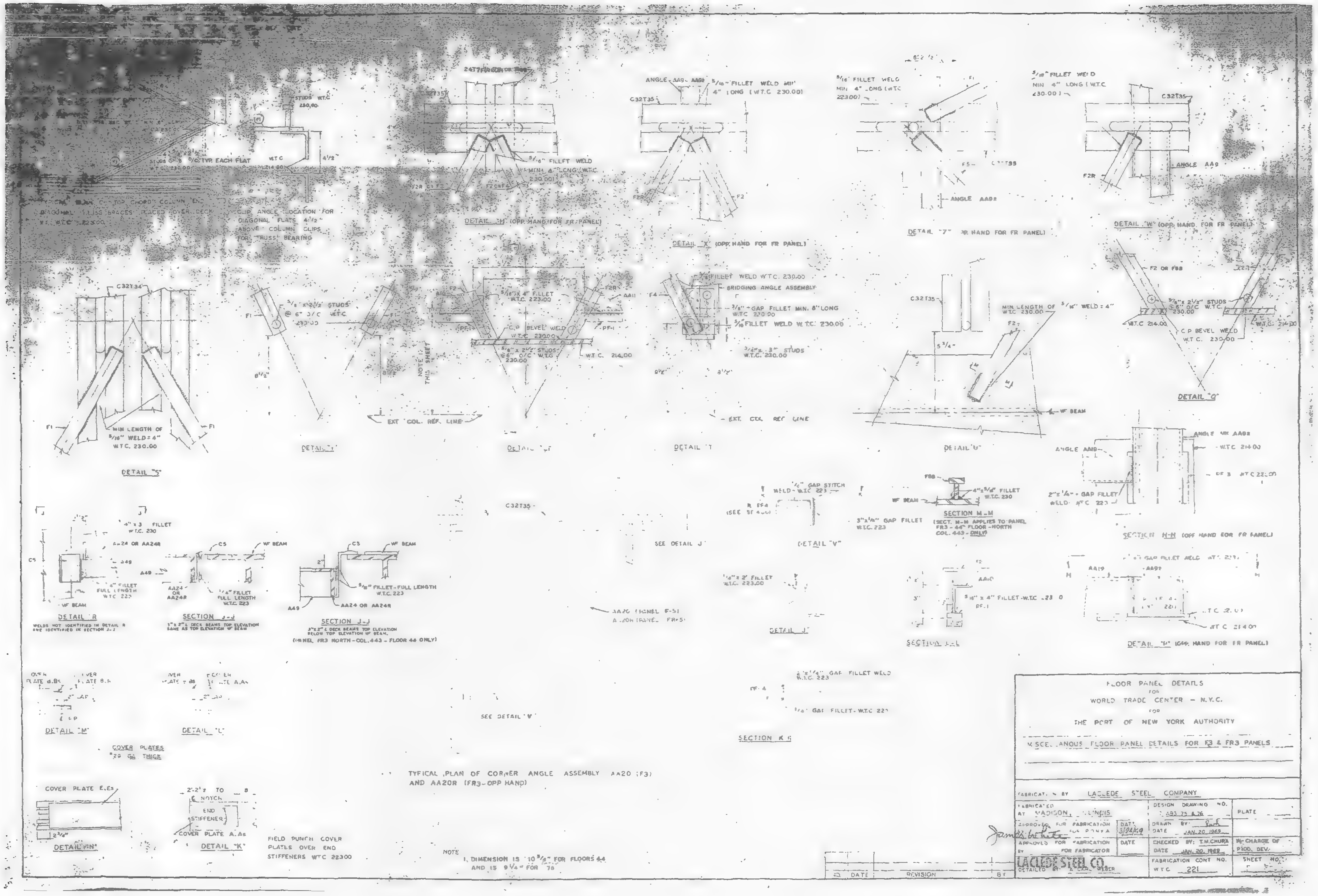
NO	DATE	REVISION	BY

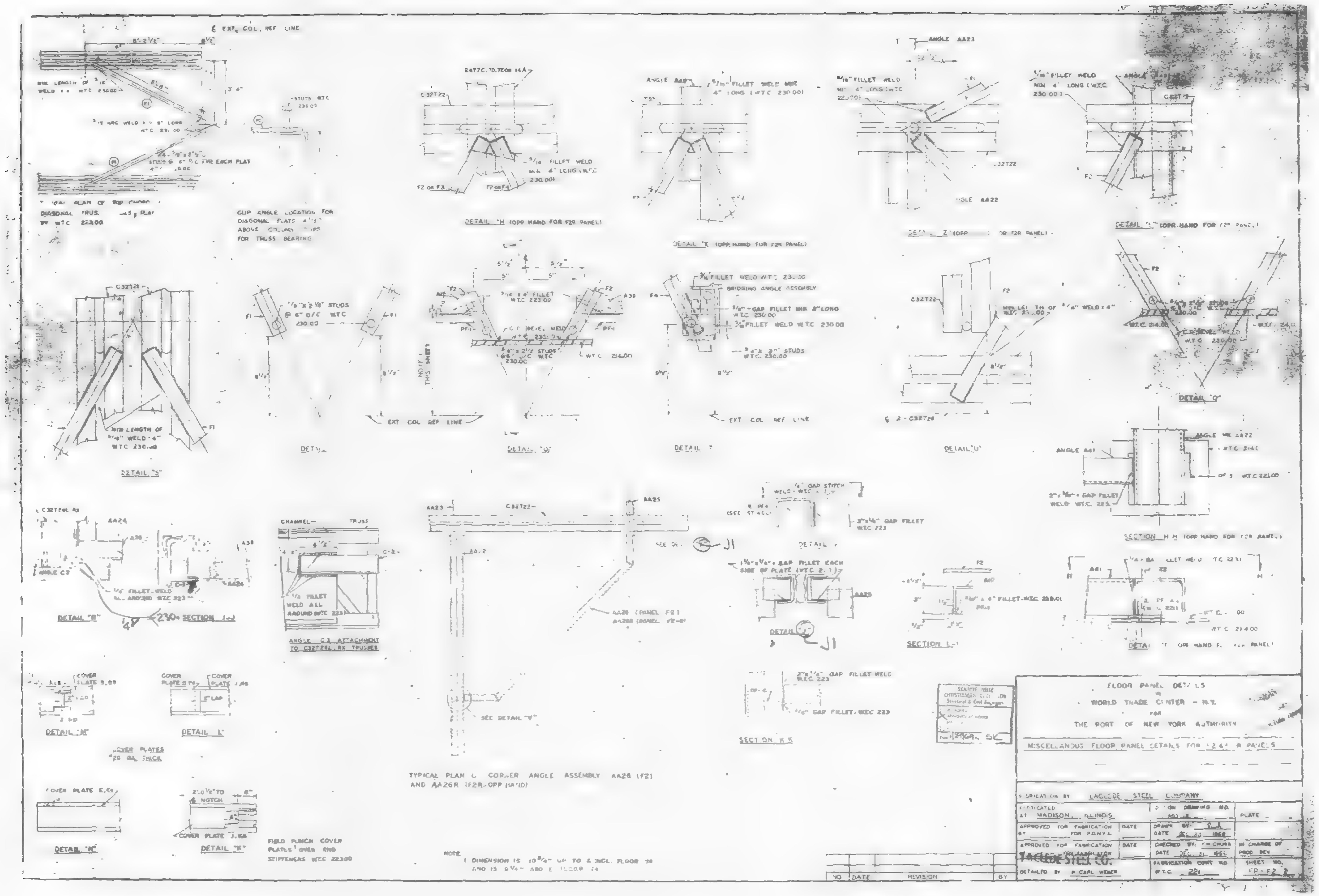
REF. DRWG			
7-AB1-48	11-25-68	SA-124	1-6-69
7-AB1-47	11-25-68	7-AB4-14,14.1	10-15-68
7-AB1-48	11-25-68	7-AB4-15,16	7-22-68
7-AB2-2	7-22-68	7-AB4-21	7-22-68
7-AB2-9	7-22-68	7-AB4-23,25	7-22-68
7-AB1-70	11-25-68	7-AB4-29	1-3-69
7-AB3-75	11-25-68	7-AB4-33-4, 43	7-22-68
7-AB4-3	10-15-68	7-AB4-42	10-15-68
		7-AB4-45	12-20-68

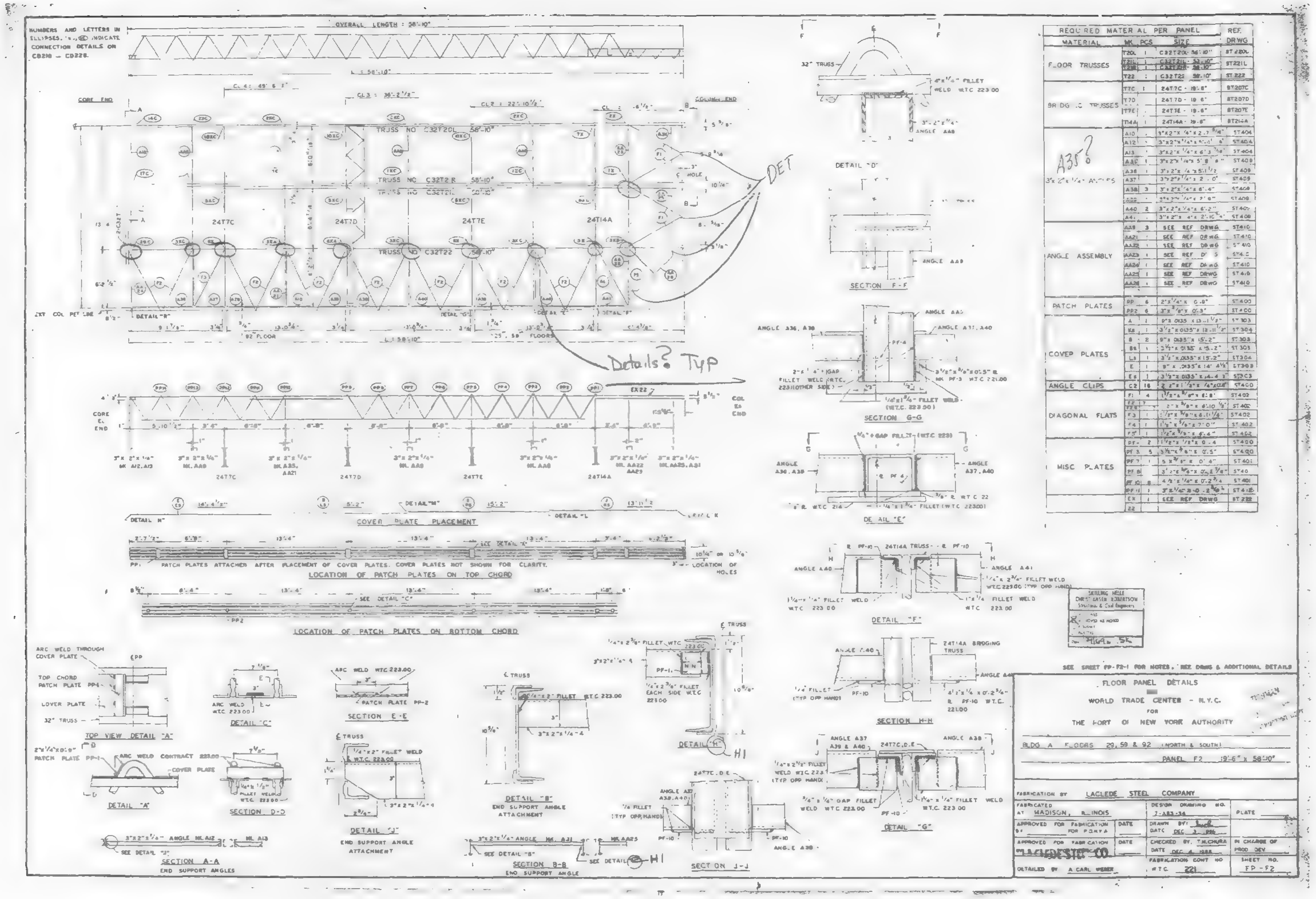
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 78 (NORTH & SOUTH) 44 (NORTH)
PANEL F3 15'-5" x 59'-0 1/4"

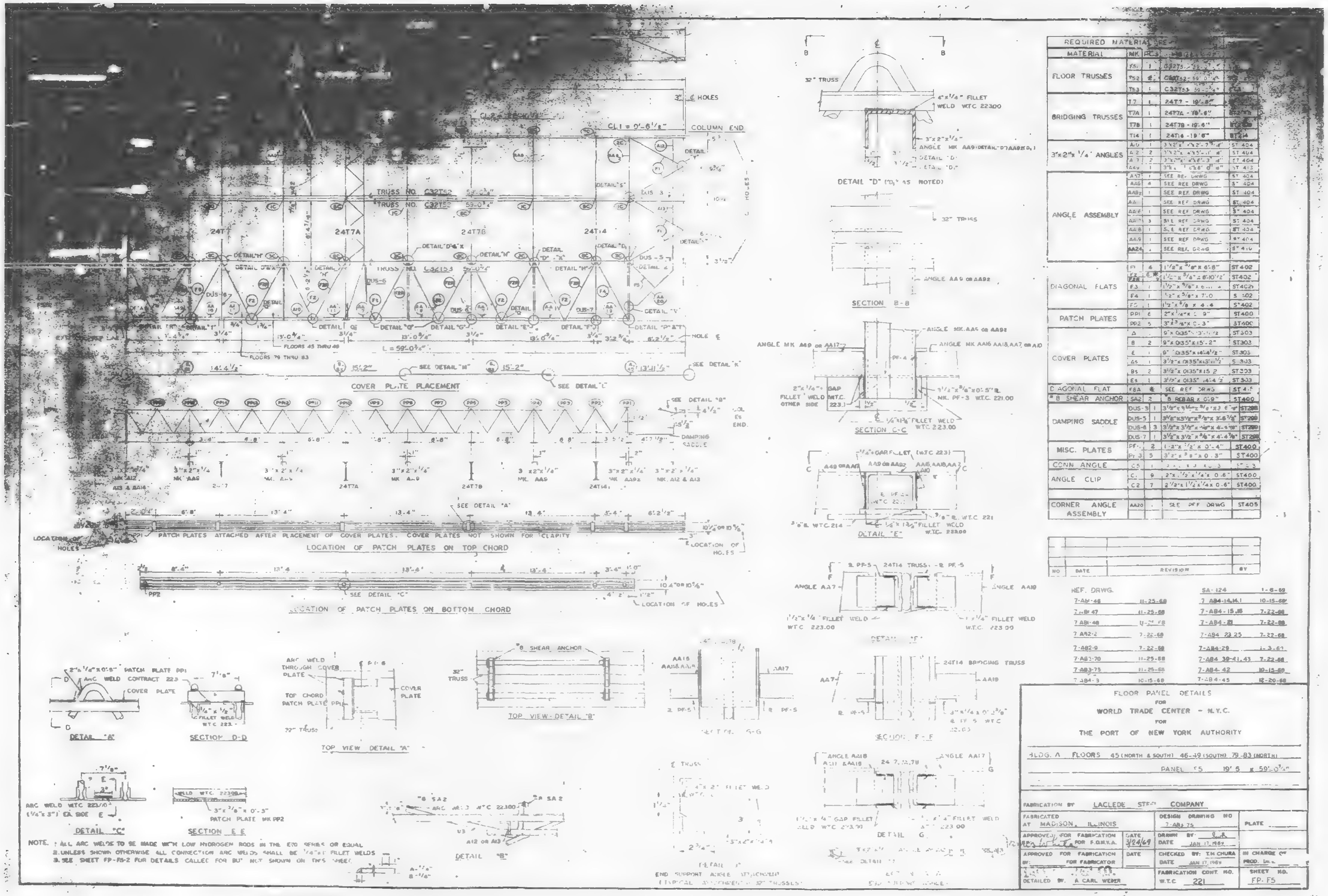
FABRICATION BY LACLEDE STEEL CO.
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. AB4-45
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. — DATE 3/24/69
DRAWN BY: L.R. DATE JAN. 17, 1969
APPROVED FOR FABRICATION FOR FABRICATOR — DATE
CHECKED BY: T.M. CHURA DATE JAN. 17, 1969
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. CARL WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET No. FP-F3


DETAIL "S"
DETAIL "H" (OPP HAND FOR FR PANEL)
DETAIL "X" (OPP. HAND FOR FR PANEL)
DETAIL "W" (OPP. HAND FOR FR PANEL)
DETAIL "Q"
SECTION M-M
SECTION J-J
DETAIL "V"
SECTION K-K
COVER PLATES
TYPICAL PLAN OF CORNER ANGLE ASSEMBLY AA20 (F3) AND AA20R (FR3-OPP HAND)
FIELD PUNCH COVER PLATES OVER END STIFFENERS WTC 223.00
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
MISCELLANEOUS FLOOR PANEL DETAILS FOR F3 & FR3 PANELS
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO.
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A.
DATE 3/24/69
DRAWN BY
DATE JAN. 20, 1969
APPROVED FOR FABRICATION FOR FABRICATOR
DATE
CHECKED BY: T.M.CHURA
DATE JAN. 20, 1969
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY A. CARL WEBER
FABRICATION CONT NO. WTC 221
SHEET NO.
DATE
REVISION
BY


FLOOR PANEL DETAILS
WORLD TRADE CENTER - N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY
MISCELLANEOUS FLOOR PANEL DETAILS
LACLEDE STEEL COMPANY
MADISON, ILLINOIS
APPROVED FOR FABRICATION
FOR P.O.N.Y.A.
DATE
APPROVED FOR FABRICATION
FOR FABRICATOR
LACLEDE STEEL CO.
CHECKED BY
IN CHARGE OF
PROD. DEV.
FABRICATION CONT. NO.
W.T.C. 221
SHEET NO.
DETAILED BY A CARL WEBER
PLATE
REVISION
BY
DATE
DETAIL "S"
DETAIL "B"
SECTION J-J
ANGLE C3 ATTACHMENT
TO C32T22, 24 TRUSSES
DETAIL "M"
DETAIL "L"
COVER PLATES
DETAIL "E"
SECTION K-K
DETAIL "Q"
SECTION L-L
TYPICAL PLAN OF CORNER ANGLE ASSEMBLY AA26 (F2)
AND AA26R (F2R-OPP HAND)
FIELD PUNCH COVER
PLATES OVER END
STIFFENERS WTC 223.00
EXT COL DEF LINE
CLIP ANGLE LOCATION FOR
DIAGONAL FLATS
ABOVE COLUMN
FOR TRUSS BEARING



NUMBERS AND LETTERS IN ELLIPSES INDICATE CONNECTION DETAILS ON CD218 — CD228.
OVERALL LENGTH : 20'-10"
CORE END
COLUMN END
TRUSS NO. C32T20L
TRUSS NO. C32T22
24T7C
24T7D
24T7E
24T14A
DET
Details? Typ
COVER PLATE PLACEMENT
PP: PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
DETAIL "C"
SECTION D-D
SECTION E-E
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
DETAIL "B"
END SUPPORT ANGLE ATTACHMENT
DETAIL "H"
SECTION A-A
END SUPPORT ANGLES
SECTION B-B
END SUPPORT ANGLE
SECTION J-J
DETAIL "D"
SECTION F-F
SECTION G-G
DETAIL "E"
DETAIL "F"
SECTION H-H
DETAIL "G"
REQUIRED MATERIAL PER PANEL
MATERIAL | MK. | PCS | SIZE | REF. DRWG
FLOOR TRUSSES | T20L | 1 | C32T20L 58'-10" | ST220L
FLOOR TRUSSES | T21L | 1 | C32T21L 58'-10" | ST221L
FLOOR TRUSSES | T22 | 1 | C32T22 58'-10" | ST222
BRIDGING TRUSSES | T7C | 1 | 24T7C - 19'-6" | ST207C
BRIDGING TRUSSES | T7D | | 24T7D - 19'-6" | ST207D
BRIDGING TRUSSES | T7E | | 24T7E - 19'-6" | ST207E
BRIDGING TRUSSES | T14A | 1 | 24T14A - 19'-6" | ST214A
A35?
3"x 2"x 1/4" ANGLES
ANGLE ASSEMBLY | SEE REF DRWG | ST410
PATCH PLATES | PP | 6 | ST400
COVER PLATES
ANGLE CLIPS | C2 | 16 | ST400
DIAGONAL FLATS
MISC PLATES
EX | 1 | SEE REF DRWG | ST222
SKILLING HELLE CHRISTIANSEN ROBERTSON Structural & Civil Engineers
SEE SHEET FP-F2-1 FOR NOTES, REF. DRWG & ADDITIONAL DETAILS
FLOOR PANEL DETAILS
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG A FLOORS 29, 59 & 92 (NORTH & SOUTH)
PANEL F2 19'-6" x 58'-10"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-34
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY DATE DEC 3
APPROVED FOR FABRICATION DATE
LACLEDE STEEL CO
CHECKED BY T.M.CHURA DATE DEC 4
IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER
FABRICATION CONT NO WTC 221
SHEET NO. FP-F2


COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
DETAIL "A"
SECTION D-D
TOP VIEW DETAIL "A"
TOP VIEW-DETAIL "B"
DETAIL "C"
SECTION E-E
DETAIL "B"
DETAIL "D"
SECTION B-B
SECTION C-C
DETAIL "E"
DETAIL "F"
SECTION F-F
DETAIL "G"
REQUIRED MATERIAL
FLOOR TRUSSES
BRIDGING TRUSSES
ANGLE ASSEMBLY
DIAGONAL FLATS
PATCH PLATES
COVER PLATES
DAMPING SADDLE
MISC. PLATES
CONN. ANGLE
ANGLE CLIP
CORNER ANGLE ASSEMBLY
REF. DRWG.
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 45 (NORTH & SOUTH) 46-49 (SOUTH) 79-83 (NORTH)
PANEL F5 19' 5 x 59'-0"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3 75
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A.
DATE 3/24/69
DRAWN BY
DATE JAN 17, 1969
APPROVED FOR FABRICATION FOR FABRICATOR
CHECKED BY: T.M CHURA
DATE JAN 17, 1969
IN CHARGE OF PROD.
DETAILED BY. A. CARL WEBER
FABRICATION CONT. NO. W.T.C 221
SHEET NO. FP-F5

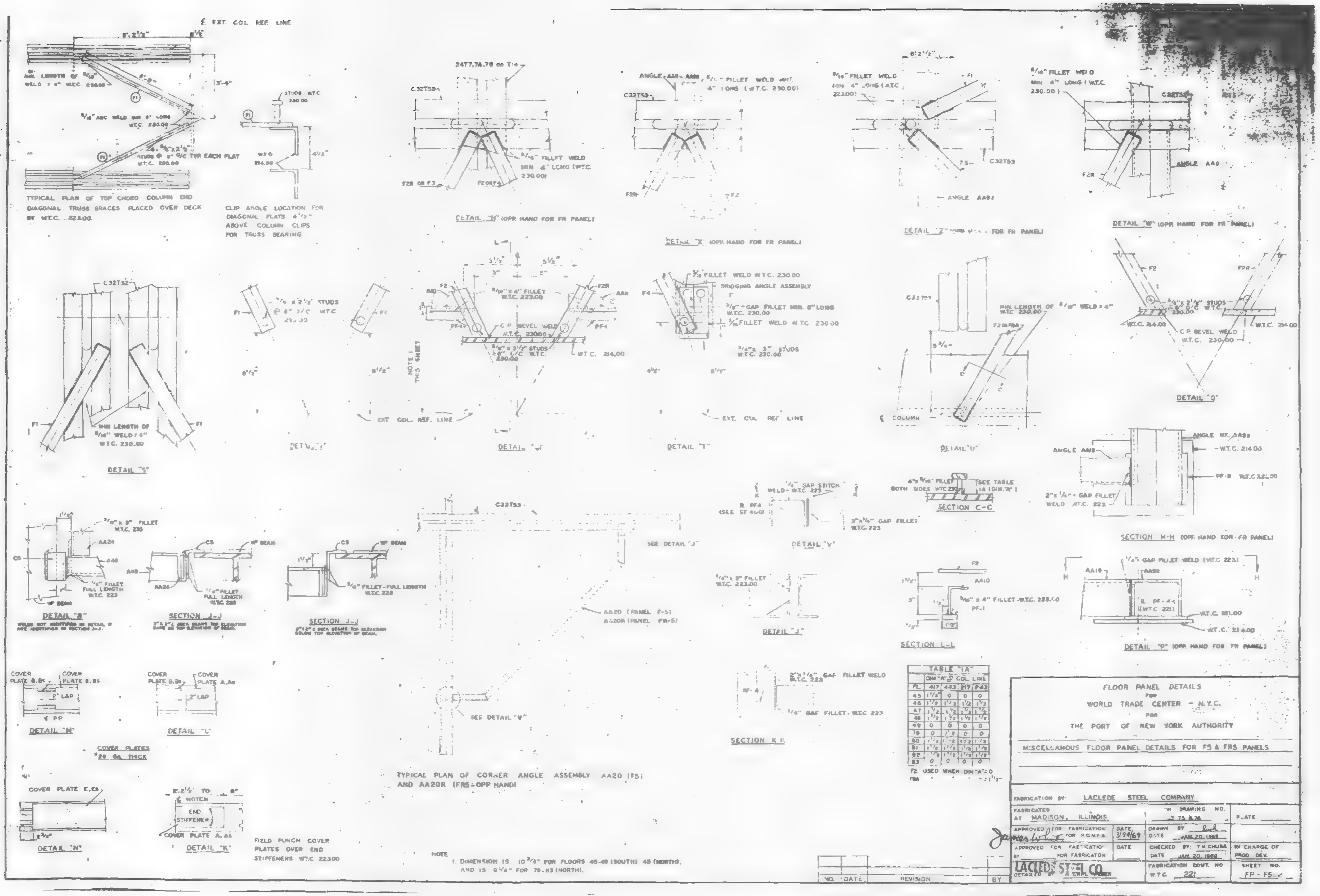


TABLE "1A"

FL.	DIM "A" @ COL. LINE 417	443	217	243
45	1 1/2	0	0	0
46	1 1/2	1 1/2	1 1/2	1 1/2
47	1 1/2	1 1/2	1 1/2	1 1/2
48	1 1/2	1 1/2	1 1/2	1 1/2
49	0	0	0	0
79	0	1 1/2	0	0
80	1 1/2	1 1/2	1 1/2	1 1/2
81	1 1/2	1 1/2	1 1/2	1 1/2
82	1 1/2	1 1/2	1 1/2	1 1/2
83	0	0	0	0

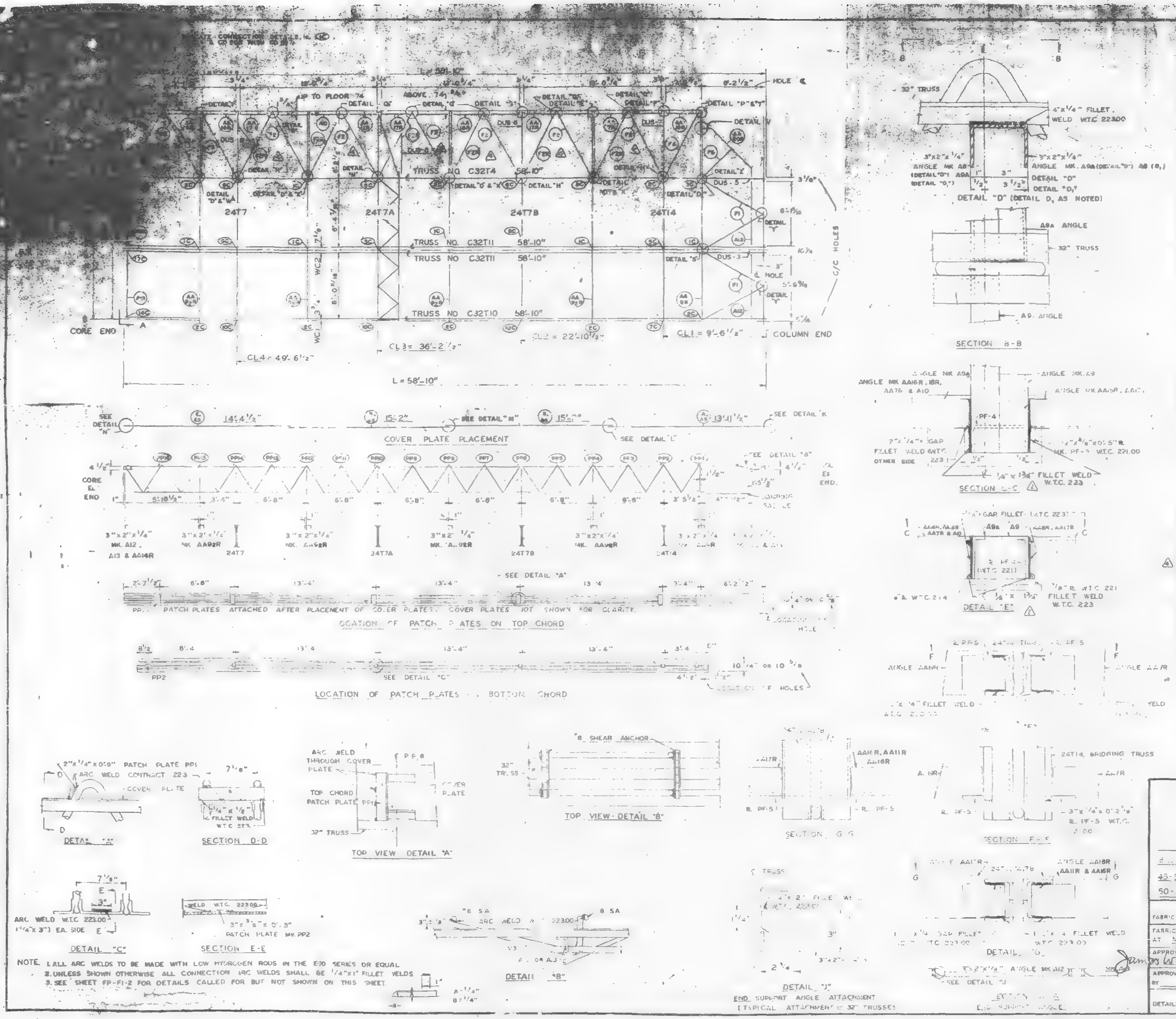
F2 USED WHEN DIM "A" = 0
F8A " " " " = 1 1/2"

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

MISCELLANOUS FLOOR PANEL DETAILS FOR F5 & FR5 PANELS

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DRAWING NO. 3 75 & 76
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 3/24/69
DRAWN BY DATE JAN. 20, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY: T.M. CHURA DATE JAN. 20, 1969
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. CARL WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO. FP - F5-2

NO.	DATE	REVISION	BY



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T10	1	C32T10 - 58'-10"	ST210
	T11	2	C32T11 - 58'-10"	ST211
	T4	1	C32T4 - 58'-10"	ST204
BRIDGING TRUSSES	T7	1	24T7 - 19'-6"	ST207
	T7A	1	24T7A - 19'-6"	ST207A
	T7B	1	24T7B - 19'-6"	ST207B
	T14	1	24T14 - 19'-6"	ST214
3"x2"x 1/4" ANGLES	A10	1	3"x2"x 1/4"x 2'-7 5/16"	ST404
	A13	2	3"x2"x 1/4"x 6'-3 7/16"	ST404
	A12	2	3"x2"x 1/4"x 5'-11 15/16"	ST404
ANGLE ASSEMBLY	AA7R	1	SEE REF. DRWG.	ST406
	AA8R	1	SEE REF. DRWG.	ST406
	AA9R	4	SEE REF. DRWG.	ST406
	AA11R	1	SEE REF. DRWG.	ST406
	AA14R	1	SEE REF. DRWG.	ST406
	AA15R	1	SEE REF. DRWG.	ST406
	AA16R	1	SEE REF. DRWG.	ST406
	AA17R	3	SEE REF. DRWG.	ST406
	AA18R	1	SEE REF. DRWG.	ST406
	AA19R	1	SEE REF. DRWG.	ST406
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST402
△3	F2 / F2R	7	1 1/2"x 5/8"x 6'-10 1/2"	ST402
	F3	1	1 1/2"x 5/8"x 6'-11 1/4"	ST402
	F4	1	1 1/2"x 5/8"x 7'-0"	ST402
	F5	1	1 1/2"x 5/8"x 4'-4"	ST402
BUTTON PLATES	PP1	6	2"x 1/4"x 0'-9"	ST400
	PP2	6	3"x 3/8"x 0'-3"	ST400
COVER PLATES	A	1	9"x 0135"x 13'-11 1/2"	ST303
	B	2	9"x 0135"x 15'-2"	ST303
	E	1	9"x 0135"x 14'-4 1/2"	ST303
	AS	1	3 1/2"x 0135"x 13'-11 1/2"	ST303
	BS	2	3 1/2"x 0135"x 15'-2"	ST303
	ES	1	3 1/2"x 0135"x 14'-4 1/2"	ST303
ANGLE CLIPS* △4	C2	4	2"x 1 1/2"x 1/4"x 0'-6"	ST401
	C1	12	2"x 1 1/2"x 1/4"x 0'-6"	ST400
DAMPING SADDLE	DUS-3	1	3 1/2"x 3 1/2"x 3/8"x [illegible]-6 7/8"	ST209
	DUS-5	1	3 1/2"x 3 1/2"x 3/8"x [illegible]-6 7/8"	ST209
	DUS-6	3	3 1/2"x 3 1/2"x 3/8"x [illegible]-4 7/8"	ST209
	DUS-7		3 1/2"x 3 1/2"x 3/8"x [illegible] 6"	ST209
MISC. PLATES	PF-1	2	1 1/2"x 1/2"x 0'-4"	ST400
	PF7	1	5"x 3/8"x 4" △2	ST401
	PF-3	5	3 1/2"x 3/8"x 0 [illegible]	ST400
△4 #8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST400
CORNER ANGLE ASSEMBLY	AA [illegible]	1	SEE REF. DRWG	ST405

*CLIP ANGLE CHANGE BECOMES EFFECTIVE WITH 33rd FLOOR, TOWER "A".

NO	DATE	REVISION	BY
△4	3-20-69	AS NOTED*	G.D.C.
△3	10-11-68	F2 & F2R	T.M.C.
△2	9-30-68	AS NOTED	T.M.C.
1	9-19-68	GENERAL	T.M.C.

REF. DRWG			
		SA-124	10-20-67
7-AB1-9	5-10-68	7-AB4-14,14.1	1-3-68
7-AB1-9	5-10-68	7-AB4-15,16	5-8-68
7-AB1-10	5-10-68	7-AB4-21	1-3-68
7-AB2-2	4-1-68	7-AB4-23-25	4-1-68
7-AB2-9	4-1-68	7-AB4-29,38.2	4-1-68
7-AB2-7	1-3-68	7-AB4-39-41,43	1-3-68
7-AB3-13	5-10-68	7-AB4-42	4-1-68
7-AB4-3,3.1,4	1-3-68	7-AB4-45,47,47.1	4-1-68

FLOOR PANEL DETAILS

FOR

WORLD TRADE CENTER - N.Y.C.

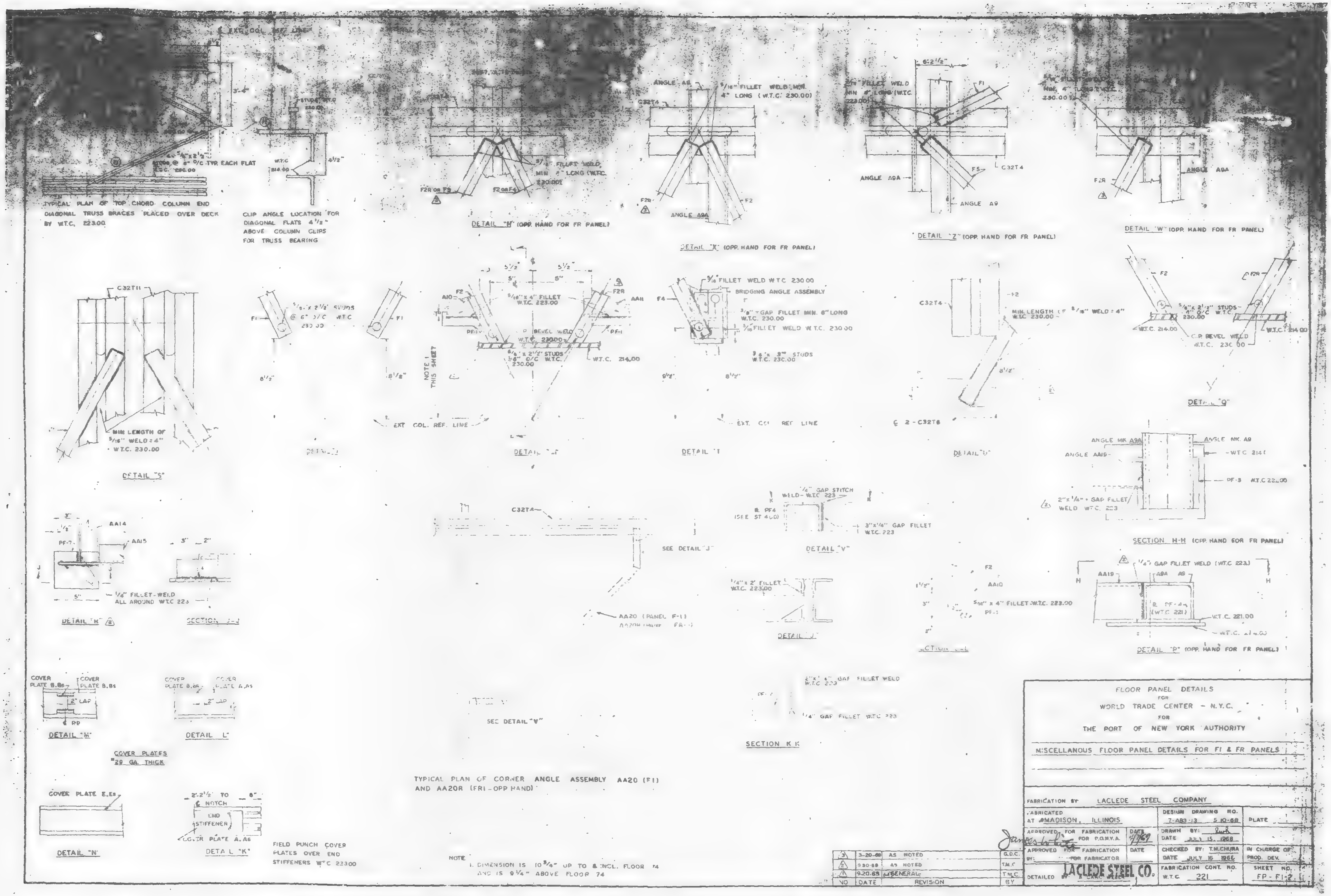
FOR

THE PORT OF NEW YORK AUTHORITY

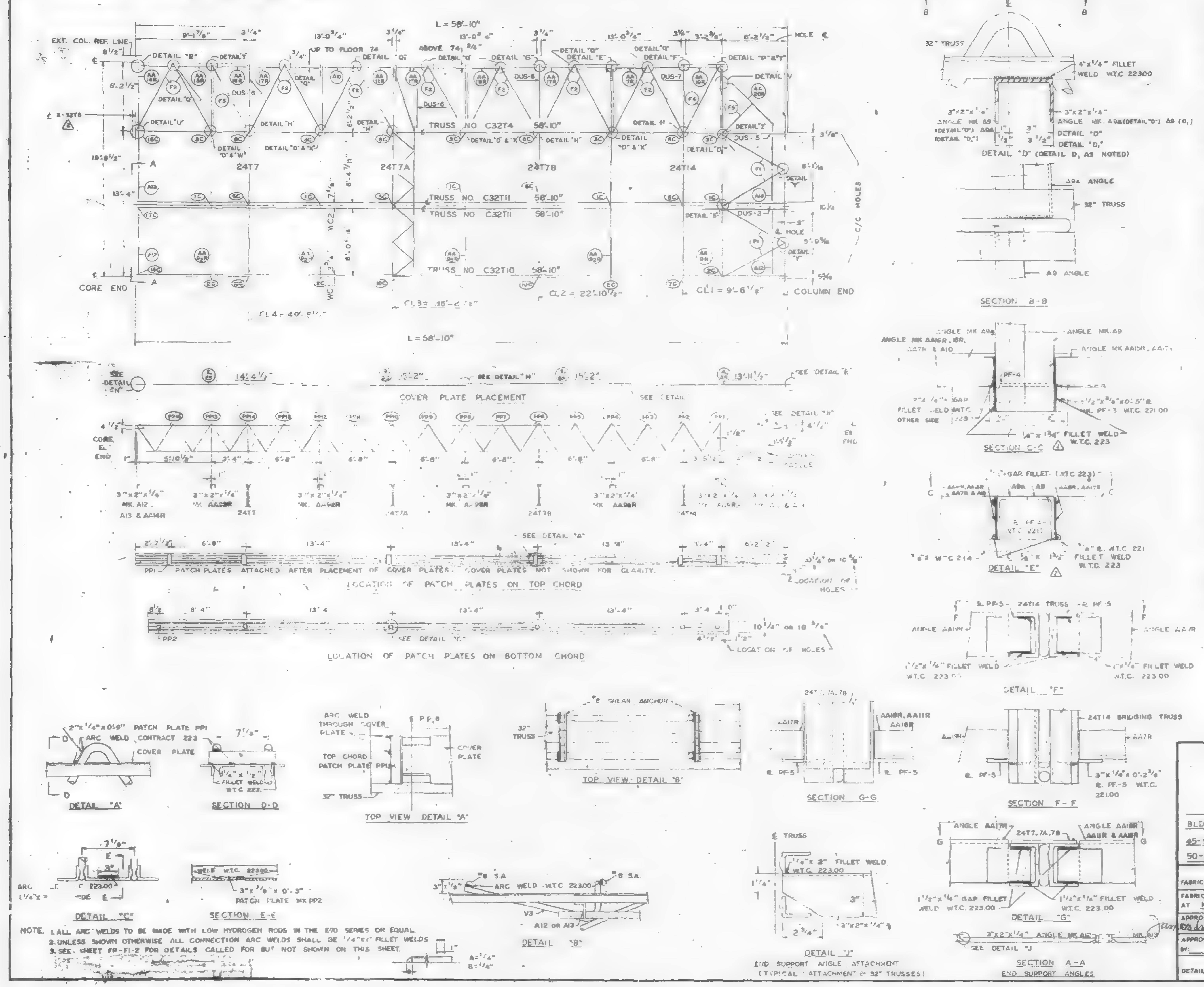
BLDG A FLOORS 10-24, 26-40, 60-66, 68-74, 93-106 (NORTH & SOUTH)
45-58, 94-[illegible] (NORTH) PANEL FR1 19'-6" x 58'-10"
50-58, 80-91 (SOUTH)

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-14 5-10-68	PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A	DATE 4/7/69	DRAWN BY: [illegible] DATE JULY 15, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY: T.M.CHURA DATE JULY 16, 1968	IN CHARGE OF PROD. DEV.
DETAILED LACLEDE STEEL CO.		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-FR1


TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
DETAIL "H" (OPP. HAND FOR FR PANEL)
DETAIL "X" (OPP. HAND FOR FR PANEL)
DETAIL "Z" (OPP. HAND FOR FR PANEL)
DETAIL "W" (OPP. HAND FOR FR PANEL)
DETAIL "S"
DETAIL "Q"
SECTION H-H (OPP. HAND FOR FR PANEL)
DETAIL "V"
DETAIL "J"
DETAIL "P" (OPP. HAND FOR FR PANEL)
DETAIL "R"
DETAIL "M"
DETAIL "L"
COVER PLATES 20 GA. THICK
DETAIL "N"
DETAIL "K"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION K-K
TYPICAL PLAN OF CORNER ANGLE ASSEMBLY AA20 (F1) AND AA20R (FR1-OPP HAND)
NOTE
1. DIMENSION IS 10 3/4" UP TO & INCL. FLOOR 74 AND IS 9 3/4" ABOVE FLOOR 74
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
MISCELLANOUS FLOOR PANEL DETAILS FOR F1 & FR PANELS
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-13 5-10-68
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A.
DATE 4/7/69
DRAWN BY:
DATE JULY 15, 1968
APPROVED FOR FABRICATION FOR FABRICATOR
CHECKED BY: T.M.CHURA
DATE JULY 15 1966
IN CHARGE OF PROD. DEV.
DETAILED BY
LACLEDE STEEL CO.
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-F1-2
3 3-20-69 AS NOTED G.D.C.
2 9-30-68 AS NOTED T.M.C.
1 9-20-68 GENERAL T.M.C.
NO DATE REVISION BY

LETTERS & NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1C), [redacted] ON SHEETS CD 201, CD 202, CD [redacted] & CD 205 THRU CD 207.



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T10	1	C32T10 - 58'-10"	ST210
	T11	2	C32T11 - 58'-10"	ST211
	T4	1	C32T4 - 58'-10"	ST204
BRIDGING TRUSSES	T7	1	24T7 - 19'-6"	BT207
	T7A	1	24T7A - 19'-8"	BT207A
	T7B	1	24T7B - 19'-6"	BT207B
	T14	1	24T14 - 19'-6"	BT214
3"x2"x 1/4" ANGLES	A10	[illegible]	3"x2"x 1/4"x 2'-[illegible] 5/16"	ST404
	A 3	2	3"x[illegible]"x 1/4"x 6'-3 7/16"	ST404
	A12	2	3"x2"x 1/4"x 5'-11 11/16"	ST404
ANGLE ASSEMBLY	AA7R	1	SEE REF. DRWG	ST406
	AA8R	1	SEE REF. DRWG.	ST406
	AA9R	4	SEE REF. DRWG.	ST406
	AA11R	1	SEE REF. DRWG.	ST406
	AA14R	1	SEE REF. DRWG.	ST406
	AA15R	1	SEE REF. DRWG.	ST406
	AA16R	1	SEE REF. DRWG	ST406
	AA17R	3	SEE REF. DRWG.	ST406
	AA18R	1	SEE REF. DRWG.	ST406
	AA19R	1	SEE REF. DRWG.	ST406
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST402
	F2 / F2R (△3)	7 / 7	1 1/2"x 5/8"x 6'-10 1/2"	ST402
	F3	1	1 1/2"x 5/8"x 6'-11 1/4"	ST402
	F4	1	1 1/2"x 5/8"x 7'-0"	ST402
	F5	1	1 1/2"x 5/8"x 4'-4"	ST402
PATCH PLATES	PP1	6	2"x 1/4"x 0'-9"	ST400
	PP2	5	3"x 3/8"x 0'-3"	ST400
COVER PLATES	A	1	9"x 0135"x 13'-11 1/2"	ST303
	B	2	9"x 0135"x 15'-2"	ST303
	E	1	9"x 0135"x 14'-4 1/2"	ST303
	AS	1	3 1/2"x .0135"x 13'-11 1/2"	ST303
	BS	2	3 1/2"x .0135"x 15'-2"	ST303
	ES	1	3 1/2"x 0135"x 14'-4 1/2"	ST303
ANGLE CLIPS	C2	16	2 1/2"x 1 1/2"x 1/4"x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-3	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
	DUS-5	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST299
	DUS-6	3	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
	DUS-7	1	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
MISC. PLATES	PF-1	2	1 1/2"x 1/2"x 0'-4"	ST400
	PF-7	1	5"x 3/8"x 4" (△2)	ST401
	PF-3	5	3 1/2"x 3/8"x 0'-[illegible]"	ST400
CORNER ANGLE ASSEMBLY	AA20R	[illegible]	SEE REF. DRWG	ST405

NO	DATE	REVISION	BY
△3	10-11-68	F2 & F2R	T.M.C.
△2	9-30-68	AS NOTED	T.M.C.
1	9-19-68	GENERAL	T.M.C.

REF. DRWG.

7-AB1-8	5-10-68	SA-124	10-20-67
7-AB1-9	5-10-68	7-AB4-14,14.1	1-3-68
7-AB1-10	5-10-68	7-AB4-15,16	5-8-68
7-A92-2	4-1-68	7-AB4-21	1-3-68
7-AB2-9	4-1-68	7-AB4-23-25	4-1-68
7-AB3-2	1-3-68	7-AB4-29,38.2	4-1-68
7-AB3-13	5-10-68	7-AB4-39-41,43	1-3-68
7-AB4-3,3.1,4	1-3-68	7-AB4-42	4-1-68
		7-AB4-45,47,47.1	4-1-68

NOTE. 1. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
2. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4"x1" FILLET WELDS.
3. SEE SHEET FP-F1-2 FOR DETAILS CALLED FOR BUT NOT SHOWN ON THIS SHEET.

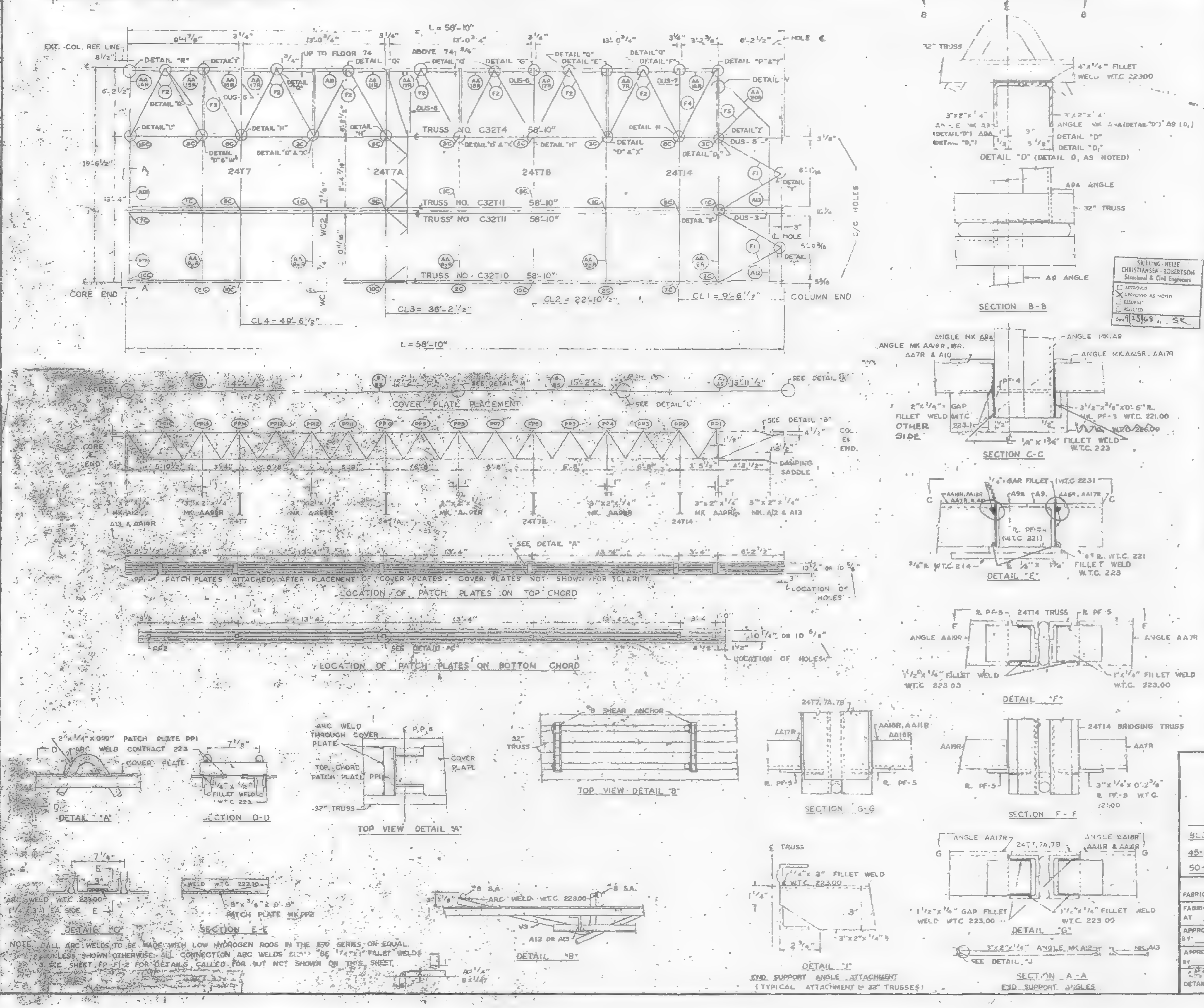
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40, 60-66, 68-74, 93-106 (NORTH & SOUTH)
45-58, 84-[illegible] (NORTH) PANEL FR1 19'-6" x 58'-10"
50-58, 80-91 (SOUTH)

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-14 5-10-68	PLATE
APPROVED FOR FABRICATION BY: [signature] FOR P.O.N.Y.A.	DATE 10/14/68	DRAWN BY: [initials] DATE JULY 15, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.M. CHURA DATE JULY 16, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: A. CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-FR1

LETTERS & NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e. (1C). SHOWN ON SHEETS CD 201, CD 202, CD 204 & CD 205 THRU CD 207.



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T10	1	C32T10 - 58'-10"	ST 210
	T11	2	C32T11 - 58'-10"	ST211
	T4	1	C32T4 - 58'-10"	ST 204
BRIDGING TRUSSES	T7	1	24T7 - 19'-6"	BT 207
	T7A	1	24T7A - 19'-6"	BT207A
	T7B	1	24T7B - 19'-6"	BT207B
	T14	1	24T14 - 19'-6"	BT214
3"x 2"x 1/4" ANGLES	A10	1	3"x 2"x 1/4"x 2'-?-?/16"	ST404
	A 3	2	3"x 2"x 1/4"x 5'-3 7/16"	ST404
	A12	2	3"x 2"x 1/4"x 5'-11 11/16"	ST404
ANGLE ASSEMBLY	AA7R	1	SEE REF. DRWG.	ST406
	AA8R	1	SEE REF. DRWG.	ST406
	AA9R	4	SEE REF. DRWG.	ST406
	AA11R	1	SEE REF. DRWG.	ST406
	AA14R	1	SEE REF. DRWG.	ST406
	AA15R	1	SEE REF. DRWG.	ST406
	AA16R	1	SEE REF. DRWG.	ST408
	AA17R	3	SEE REF. DRWG.	ST405
	AA18R	1	SEE REF. DRWG.	ST406
	AA19R	1	SEE REF. DRWG.	ST406
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST 402
	F2	14	1 1/2"x 5/8"x 6'-10 1/2"	ST402
	F3	1	1 1/2"x 5/8"x 6'-11 1/4"	ST402
	F4	1	1 1/2"x 5/8"x 7'-0"	ST402
	F5	1	1 1/2"x 5/8"x 4'-4"	ST402
PATCH PLATES	PP1	6	2"x 1/4"x 0'-9"	ST400
	PP2	6	3"x 3/8"x 0'-3"	ST400
COVER PLATES	A	1	9"x .0135"x 13'-11 1/2"	ST 303
	B	2	9"x .0135"x 15'-2"	ST303
	E	1	9"x .0135"x 14'-4 1/2"	ST303
	AS	1	3 1/2"x .0135"x 13'-11 1/2"	ST 303
	BS	2	3 1/2"x .0135"x 15'-2"	ST 303
	ES	1	3 1/2"x .0135"x 14'-4 1/2"	ST 303
ANGLE CLIPS	C2	16	2 1/2"x 1 1/2"x 1/4"x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-3	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST299
	DUS-5	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST299
	DUS-6	3	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
	DUS-7	1	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
MISC. PLATES	PF-1	2	1 1/2"x 1/2"x 0'-4"	ST400
	PF-7	3	5"x 3/4"x 4"	ST401
	PF-3	5	3 1/2"x 3/8"x 0'-3"	ST403
CORNER ANGLE ASSEMBLY	AA20R	1	SEE REF. DRWG	ST405

NO	DATE	REVISION	BY
1	9-19-68	GENERAL	T.M.C.

REF. DRWG.

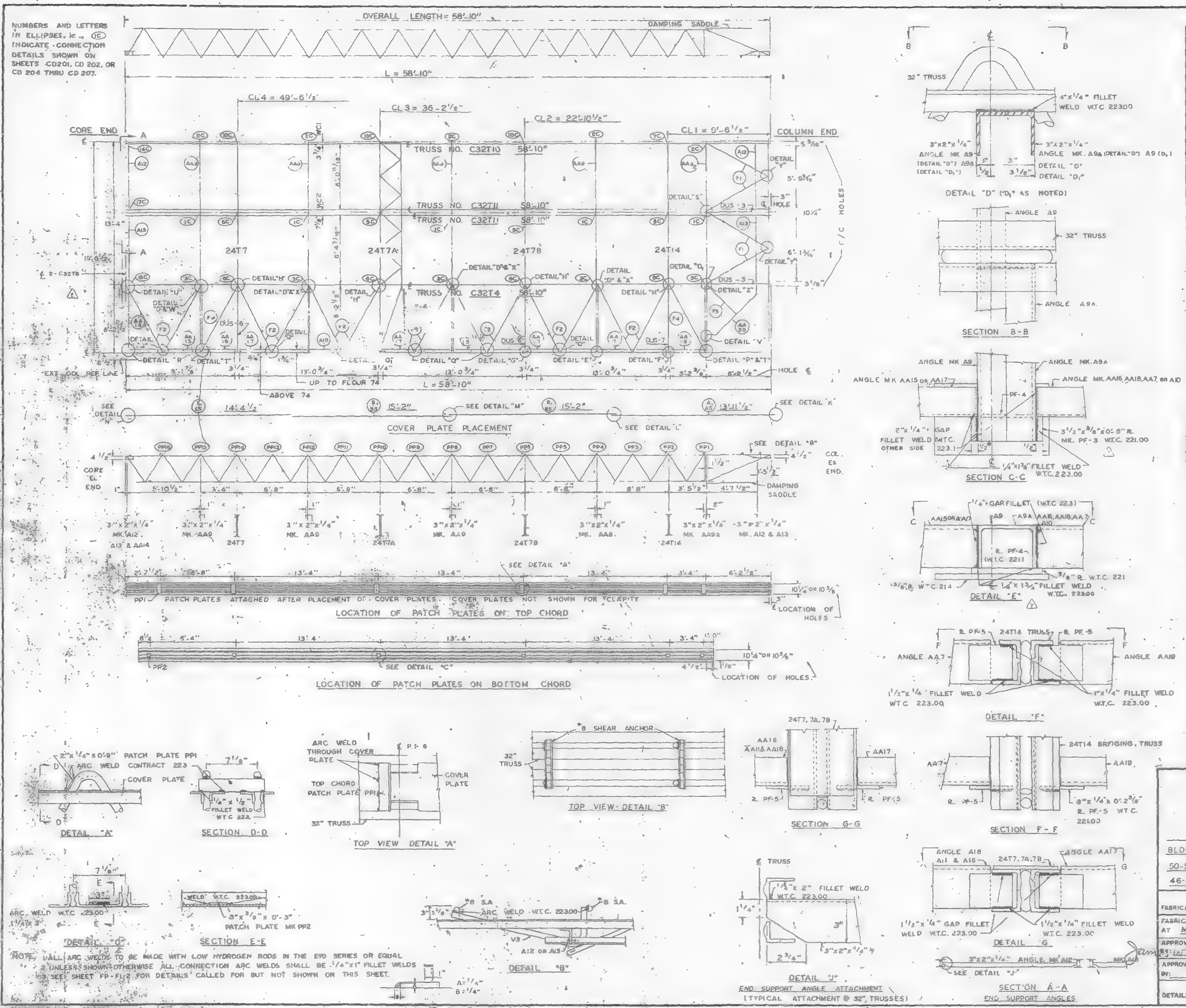
7-AB1-8	5-10-68	SA-124	10-20-67
7-AB1-9	5-10-68	7-AB4-14,14.1	1-3-68
7-AB1-10	5-10-68	7-AB4-15,16	5-6-68
7-AB2-2	4-1-68	7-AB4-21	1-3-68
7-AB2-9	4-1-68	7-AB4-23-25	4-1-68
7-AB3-2	1-3-68	7-AB4-29,38.2	4-1-68
7-AB3-13	5-10-68	7-AB4-39-41,43	1-3-68
7-AB4-3,3.1,4	1-3-68	7-AB4-42	4-1-68
		7-AB4-45,47,47.1	4-1-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40, 60-66, 68-74, 93-100 (NORTH & SOUTH)
45-58, 84-91 (NORTH) PANEL FR1 19'-6" x 58'-10"
50-58, 80-91 (SOUTH)

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-14 5-10-68	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY: [illegible] DATE JULY 15, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR LACLEDE STEEL CO.	DATE	CHECKED BY: T.M.CHURA DATE JULY 16, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: A CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-FR1



REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK.	PCS	SIZE	DRWG.
FLOOR TRUSSES	T10	1	C32T10 - 58'-10"	ST 210
	T11	2	C32T11 - 58'-10"	ST211
	T4	1	C32T4 - 58'-10"	ST 204
BRIDGING TRUSSES	T7	1	24T7 - 19'-6"	BT 207
	T7A	1	24T7A - 19'-6"	BT207A
	T7B	1	24T7B - 19'-6"	BT207B
	T14	1	24T14 - 19'-6"	BT214
3"x2"x 1/4" ANGLES	A10	1	3"x2"x1/4"x 2'-7 15/16"	ST404
	A13	2	3"x2"x1/4"x6'-3 7/16"	ST404
	A12	2	3"x2"x1/4"x 5'-11 11/16"	ST404
ANGLE ASSEMBLY	AA7	1	SEE REF. DRWG.	ST404
	AA9	4	SEE REF. DRWG.	ST404
	AA92	1	SEE REF. DRWG.	ST404
	AA11	1	SEE REF. DRWG.	ST404
	AA14	1	SEE REF. DRWG.	ST404
	AA15	[illegible]	SEE REF. DRWG.	ST404
	AA16	1	SEE REF. DRWG.	ST404
	AA17	3	SEE REF. DRWG.	ST404
	AA18	1	SEE REF. DRWG.	ST404
	AA19	1	SEE REF. DRWG.	ST404
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST 402
	F2 / F2R (3)	7 / [illegible]	1 1/2"x 5/8"x 6'-10 1/2"	ST402
	F3	1	1 1/2"x 5/8"x 6'-11 1/4"	ST402
	F4	1	1 1/2"x 5/8"x 7'-0"	ST402
	F5	1	1 1/2"x 5/8 x 4'-4"	ST402
PATCH PLATES	PP1	6	2"x 1/4"x 0'-9"	ST400
	PP2	5	3"x 3/8"x 0'-3"	ST400
COVER PLATES	A	1	9"x.0135"x13'-11 1/2"	ST 303
	B	2	9"x.0135"x15'-2"	ST303
	E	1	9"x.0135"x14'-4 1/2"	ST303
	AS	1	3 1/2"x.0135"x13'-11 1/2"	ST 303
	BS	2	3 1/2"x.0135"x15'-2	ST 303
	ES	1	3 1/2"x.0135"x14'-4 1/2"	ST 303
ANGLE CLIPS	C2	16	2 1/2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	2	8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-3	1	3 1/2"x3 1/2"x 3/8"x3'-6 7/8"	ST298
	DUS-5	1	3 1/2"x3 1/2"x 3/8"x 3'-6 7/8"	ST299
	DUS-6	3	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
	DUS-7	1	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
MISC. PLATES	PF-1	2	1 1/2"x 1/2"x 0'-4"	ST400
	PF-7	1	5"x 3/8"x 4"	ST401
	PF-3	5	3 1/2"x 3/8"x 0'-5"	ST400
CORNER ANGLE ASSEMBLY	AA20	1	SEE REF. DRWG	ST405

NO	DATE	REVISION	BY
3	10-11-68	F2 & F2R	T.M.C.
2	9-30-68	AS NOTED	T.M.C.
1	9-19-68	GENERAL	T.M.C.

REF. DRWG.

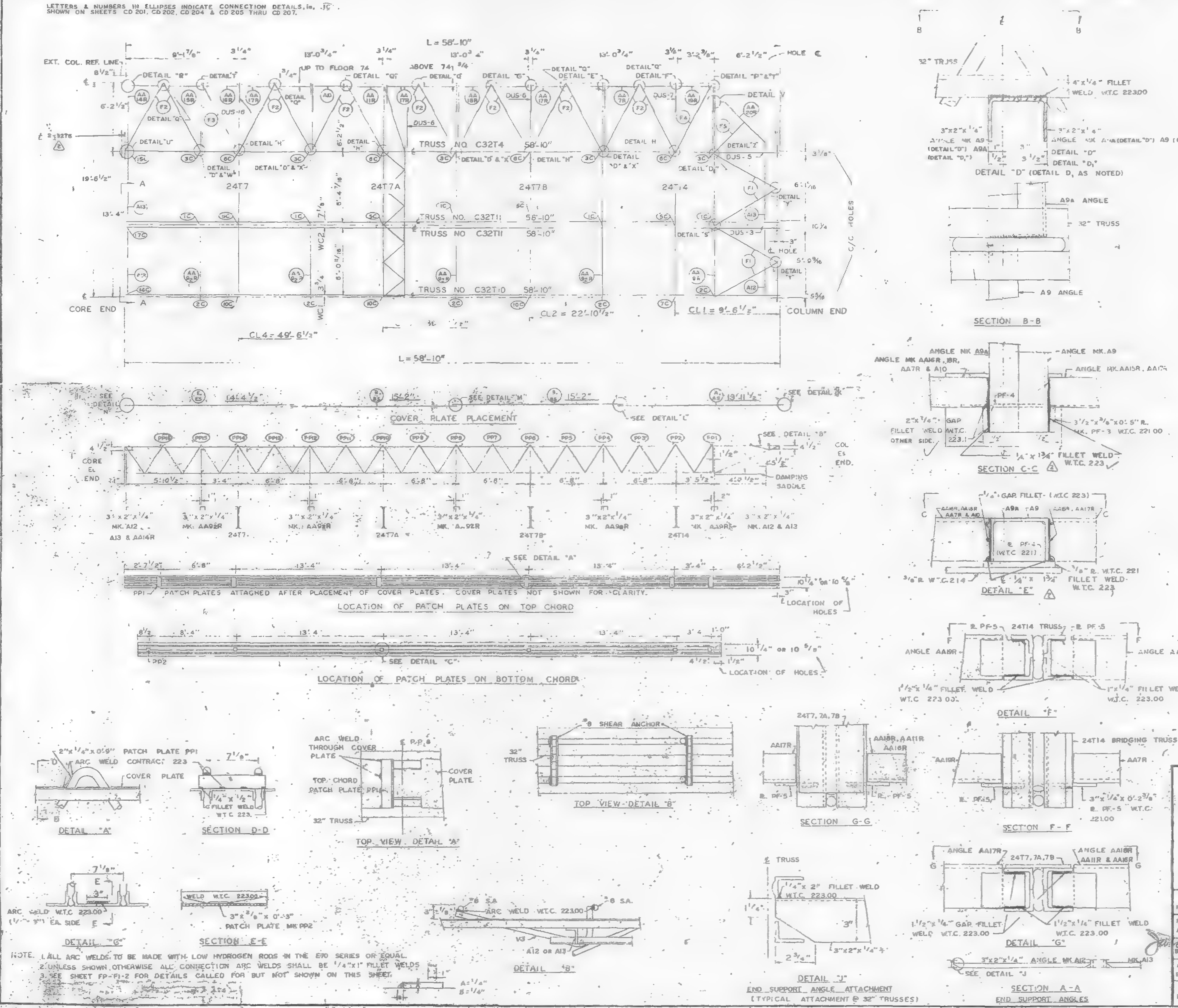
7-AB1-8	5-10-68	SA-124	10-20-67
7-AB1-9	5-10-68	7-AB4-14,14.1	1-3-68
7-AB1-10	5-10-68	7-AB4-15,16	5-6-68
7-AB2-2	4-1-68	7-AB4-21	1-3-68
7-AB2-9	4-1-68	7-AB4-23,25	4-1-68
7-AB3-2	1-3-68	7-AB4-29,38.2	4-1-68
7-AB3-13	5-10-68	7-AB4-39-41,43	1-3-68
7-AB4-3,3.1,4	1-3-68	7-AB4-42	4-1-68
		7-AB4-45,47,47.1	4-1-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40, 60-66, 68-74, 93-106 (NORTH & SOUTH)
50-58, 79-91 (SOUTH) PANEL F1 19'-6" x 58'-10"
46-58, 84-91 (NORTH)

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-13 5-10-68	PLATE
APPROVED FOR FABRICATION BY: [signature] FOR P.O.N.Y.A.	DATE 10/14/68	DRAWN BY: [initials] DATE JULY 15, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.M.CHURA DATE JULY 16, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: A. CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-F1



NOTE. 1. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
2. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FILLET WELDS
3. SEE SHEET FP-F1-2 FOR DETAILS CALLED FOR BUT NOT SHOWN ON THIS SHEET.

REQUIRED MATERIAL PER PANEL				REF DWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T10	1	C32T10 [illegible]	ST2[illegible]
	T11	2	C32T11 58'-10"	ST2[illegible]
	T4	1	C32T4 58'-10"	ST204
BRIDGING TRUSSES	T7	1	24T7 - 19'-6"	ST207
	T7A	1	24T7A - 19'-6	ST207A
	T7B	1	24T7B 19'-6"	ST207B
	T14	1	24T14 - 19'-6"	ST214
3" x 2" x 1/4" ANGLES	A10	1	3" x 2" x 1/4" x 2'-[illegible] 5/16"	ST404
	A 3	2	3" x 2" x 1/4" x 6'-3 7/16"	ST404
	A12	2	3" x 2" x 1/4" x 5'-11" 1/16"	ST404
ANGLE ASSEMBLY	AA[illegible]R	1	SEE REF. DRWGS.	ST406
	AA9R	1	SEE REF. DRWS.	ST406
	AA[illegible]R	4	SEE REF. DRWG.	ST406
	AA11R	1	SEE REF. DRWS.	ST406
	AA14R	1	SEE REF. DRWG.	ST406
	AA15R	1	SEE REF. DRWG.	ST406
	AA16R	1	SEE REF. DRWG.	ST406
	AA17R	3	SEE REF. DRWG.	ST400
	AA18R	1	SEE REF. DRWG.	ST400
	AA19R	1	SEE REF. DRWG.	ST406
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST402
	F2	14	1 1/2" x 5/8" x 6'-10 1/2"	ST402
	F3	1	1 1/2" x 5/8" x 6'-11 1/4"	ST402
	F4	1	1 1/2" x 5/8" x 7'-0"	ST402
	F5	1	1 1/2" x 5/8" x 4'-4"	ST402
PATCH PLATES	PP1	6	2" x 1/4" x 0'-9"	ST400
	PP2	5	3" x 3/8" x 0'-3"	ST400
COVER PLATES	A	1	9" x 0135" x 13'-11 1/2"	ST303
	B	2	9" x 0135" x 15'-2"	ST303
	E	1	9" x 0135" x 14'-4 1/2"	ST303
	AS	1	3 1/2" x 0135" x 13'-11 1/2"	ST303
	BS	2	3 1/2" x 0135" x 15'-2"	ST303
	ES	1	3 1/2" x 0135" x 14'-4 1/2"	ST303
ANGLE CLIPS	C2	16	2 1/2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-3	1	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST299
	DUS-5	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST299
	DUS-6	3	3 1/2" x 3 1/2" x 3/8" x 4'-4 7/8"	ST299
	DUS-7	1	3 1/2" x 3 1/2" x 3/8" x 4'-4 7/8"	ST299
MISC. PLATES	PF-1	2	1 1/2" x 1/2" x 0'-4"	ST400
	PF-7	4	5" x 3/8" x 4" (2)	ST401
	PF-3	5	3 1/2" x 3/8" x 0'-[illegible]"	ST400
CORNER ANGLE ASSEMBLY	AA20R	1	SEE REF. DRWG	ST405

NO	DATE	REVISION	BY
(2)	9-30-68	AS NOTED.	T.M.C
1	9-19-68	GENERAL	T.M.C.

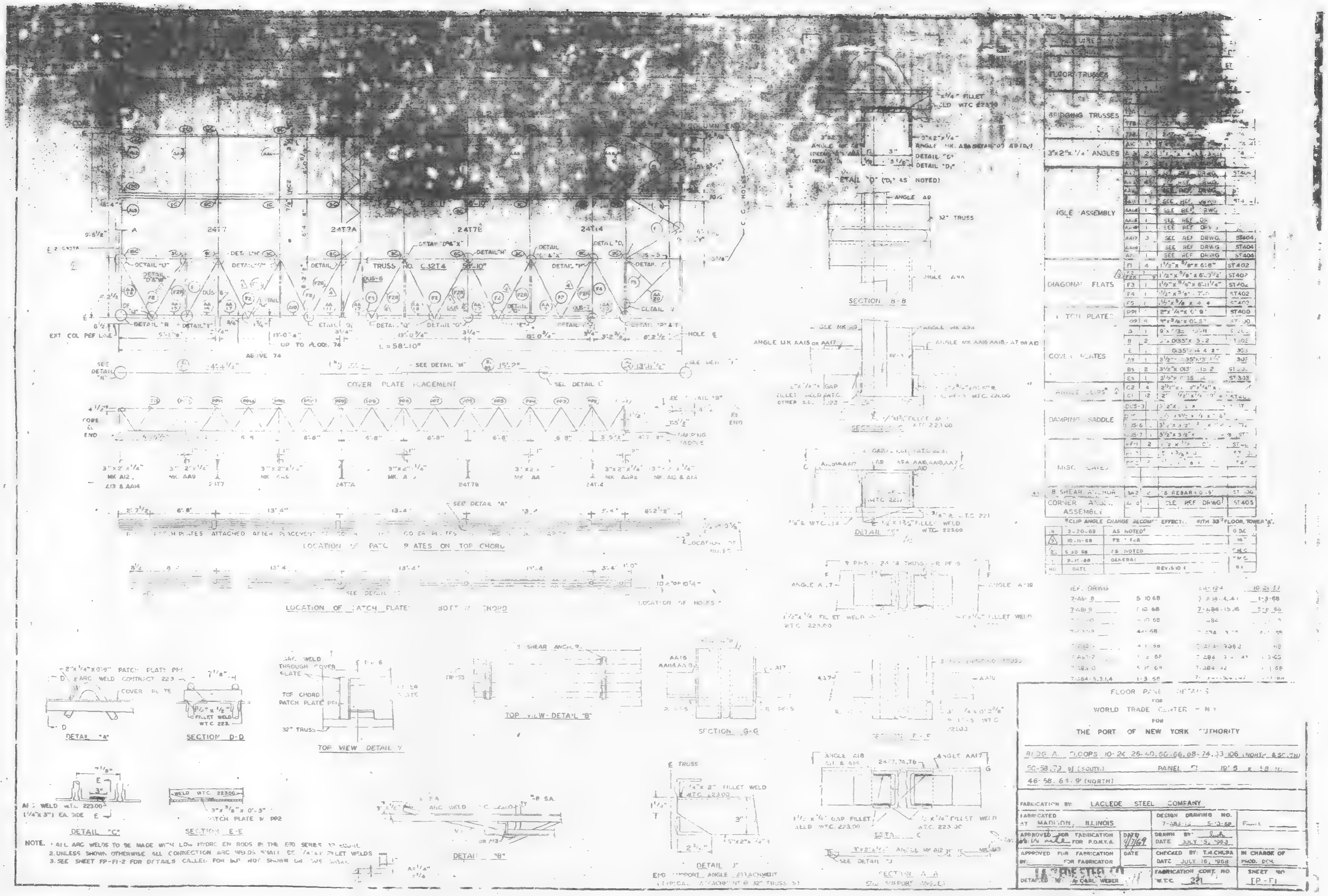
REF. DRWG.			
7-AB1-8	5-10-68	SA-124	10-20-67
7-AB1-9	5-10-68	7-AB4-14, 14.1	1-3-68
7-AB1-10	5-10-68	7-AB4-15, 16	5-6-68
7-AB2-2	4-1-68	7-AB4-21	1-3-68
7-AB2-9	4-1-68	7-AB4-23-25	4-1-68
7-AB3-2	1-3-68	7-AB4-29, 38.2	4-1-68
7-AB3-13	5-10-68	7-AB4-39-41, 43	1-3-68
7-AB4-3, 3.1, 4	1-3-69	7-AB4-42	4-1-68
		7-AB4-45, 47, 47.1	4-1-68

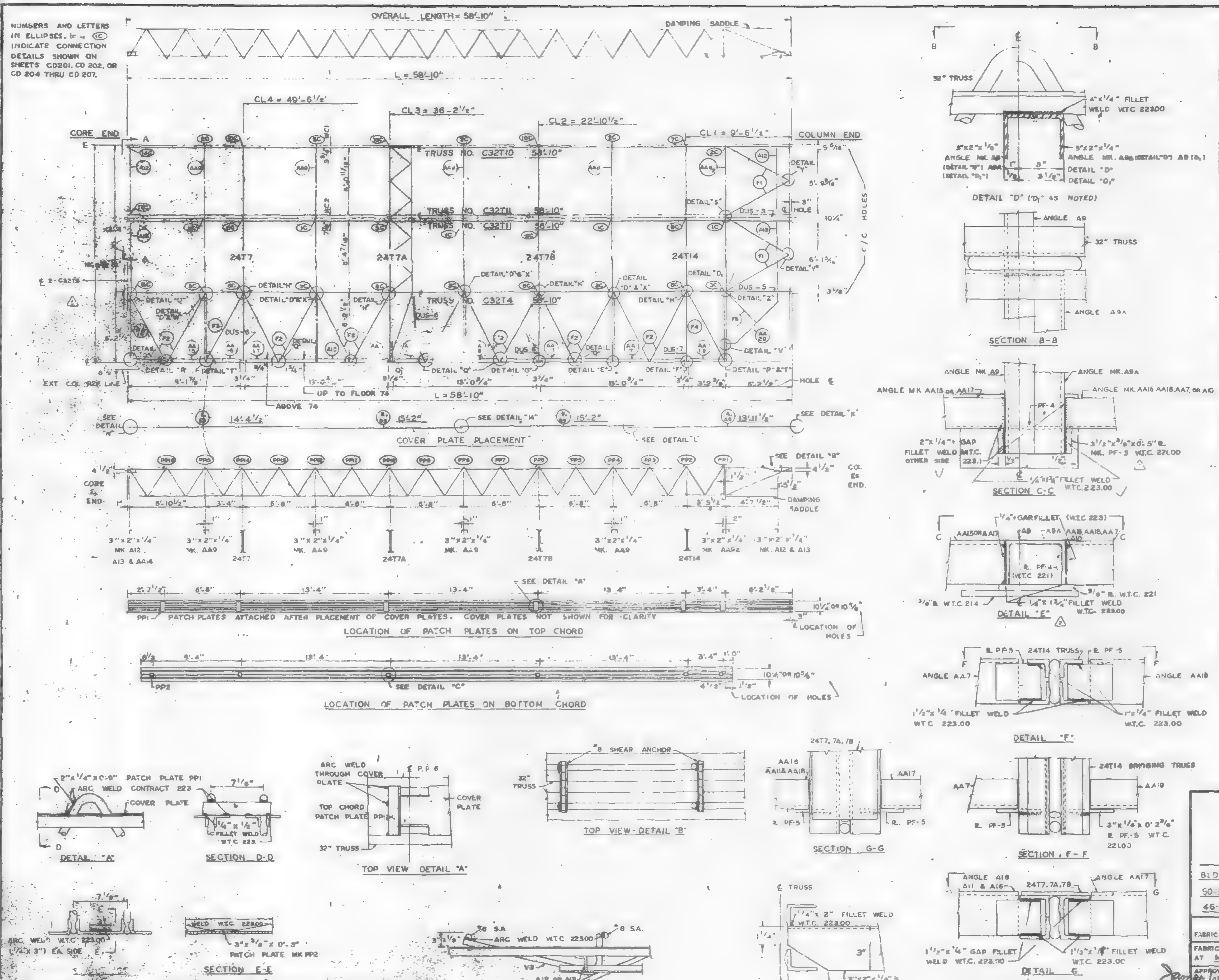
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40, 60-66, 68-74, 93-100 (NORTH & SOUTH)
45-58, 84-9[illegible] (NORTH) PANEL FR1 19'-6" x 58'-10"
50-58, 80-91 (SOUTH)

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-14 5-10-68	PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A.	DATE 10/7/68	DRAWN BY: [illegible] DATE JULY 15, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR LACLEDE STEEL CO.	DATE	CHECKED BY: T.M.CHURA DATE JULY 16, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: A CARL WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO. FP-FR1


FLOOR TRUSSES
BRIDGING TRUSSES
3"x2"x1/4" ANGLES
DIAGONAL FLATS
COVER PLATES
DAMPING SADDLE
CORNER ANGLE ASSEMBLY
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES BOTTOM CHORD
SECTION B-B
SECTION D-D
SECTION E-E
SECTION G-G
SECTION A-A
DETAIL "A"
DETAIL "C"
DETAIL "B"
TOP VIEW DETAIL "B"
END SUPPORT ANGLE ATTACHMENT
NOTE: 1. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
2. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FILLET WELDS.
3. SEE SHEET FP-F1-2 FOR DETAILS CALLED FOR BUT NOT SHOWN ON THIS SHEET.
FLOOR PANE DETAILS
FOR
WORLD TRADE CENTER - N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG A. FLOORS 10-24, 26-40, 50-66, 68-74, 83-106 (NORTH & SOUTH)
50-58, 73-91 (SOUTH)
PANEL F1 19'5 x 58-10
46-58, 64-9? (NORTH)
FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A84-12 5-10-68
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A.
DATE 4/7/69
DRAWN BY:
DATE JULY 15, 1968
APPROVED FOR FABRICATION BY: FOR FABRICATOR
DATE
CHECKED BY: T.M. CHUPA
DATE JULY 16, 1968
IN CHARGE OF PROD. DEM.
DETAILED BY: A. CARL WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-F1



NOTE. 1. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
2. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4"x1" FILLET WELDS.
3. SEE SHEET FP-F1-2 FOR DETAILS CALLED FOR BUT NOT SHOWN ON THIS SHEET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T10	1	C32T10 - 58'-10"	ST210
	T11	2	C32T11 - 58'-10"	ST211
	T4	1	C32T4 - 58'-10"	ST204
BRIDGING TRUSSES	T7	1	24T7 - 19'-6"	BT207
	T7A	1	24T7A - 19'-6"	BT207A
	T7B	1	24T7B - 19'-6"	BT207B
	T14	1	24T14 - 19'-6"	BT214
3"x2"x 1/4" ANGLES	A10	1	3"x2"x1/4"x 2'-7 15/16"	ST404
	A13	2	3"x2"x1/4"x6'-3 7/16"	ST404
	A12	2	3"x2"x1/4"x 5'-11 11/16"	ST404
ANGLE ASSEMBLY	AA7	1	SEE REF. DRWG.	ST404
	AA9	4	SEE REF. DRWG.	ST404
	AA9a	1	SEE REF DRWG.	ST404
	AA11	1	SEE REF DRWG.	ST404
	AA14	1	SEE REF DRWG.	ST404
	AA15	1	SEE REF DRWG.	ST404
	AA16	1	SEE REF. DRWG.	ST404
	AA17	3	SEE REF. DRWG.	ST404
	AA18	1	SEE REF. DRWG.	ST404
	AA19	1	SEE REF. DRWG.	ST404
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST402
	F2	14	1 1/2"x 5/8"x 6'-10 1/2"	ST402
	F3	1	1 1/2"x 5/8"x 6'-11 1/4"	ST402
	F4	1	1 1/2" x 5/8"x 7'-0"	ST402
	F5	1	1 1/2"x 5/8 x 4'-4"	ST402
PATCH PLATES	PP1	6	2"x 1/4"x 0'-9"	ST400
	PP2	5	3"x 3/8"x 0'-3"	ST400
COVER PLATES	A	1	9"x .0135"x 13'-11 1/2"	ST303
	B	2	9"x .0135"x 15'-2"	ST303
	E	1	9"x .0135"x 14'-4 1/2"	ST303
	As	1	3 1/2"x .0135"x 13'-11 1/2"	ST303
	Bs	2	3 1/2"x .0135"x 15'-2	ST303
	Es	1	3 1/2"x .0135"x 14'-4 1/2"	ST303
ANGLE CLIPS	C2	16	2 1/2"x 1 1/2"x 1/4"x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	2	8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-3	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
	DUS-5	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST299
	DUS-6	3	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
	DUS-7	1	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
MISC. PLATES	PF-1	2	1 1/2"x 1/2"x 0'-4"	ST400
	PF-7	.	5" x 3/8"x 4"	ST401
	PF-3	5	3 1/2"x 3/8"x 0'-5"	ST400
CORNER ANGLE ASSEMBLY	AA20	1	SEE REF DRWG	ST405

NO	DATE	REVISION	BY
2	9-30-68	AS NOTED	T.M.C.
1	9-19-68	GENERAL	T.M.C.

REF. DRWG.

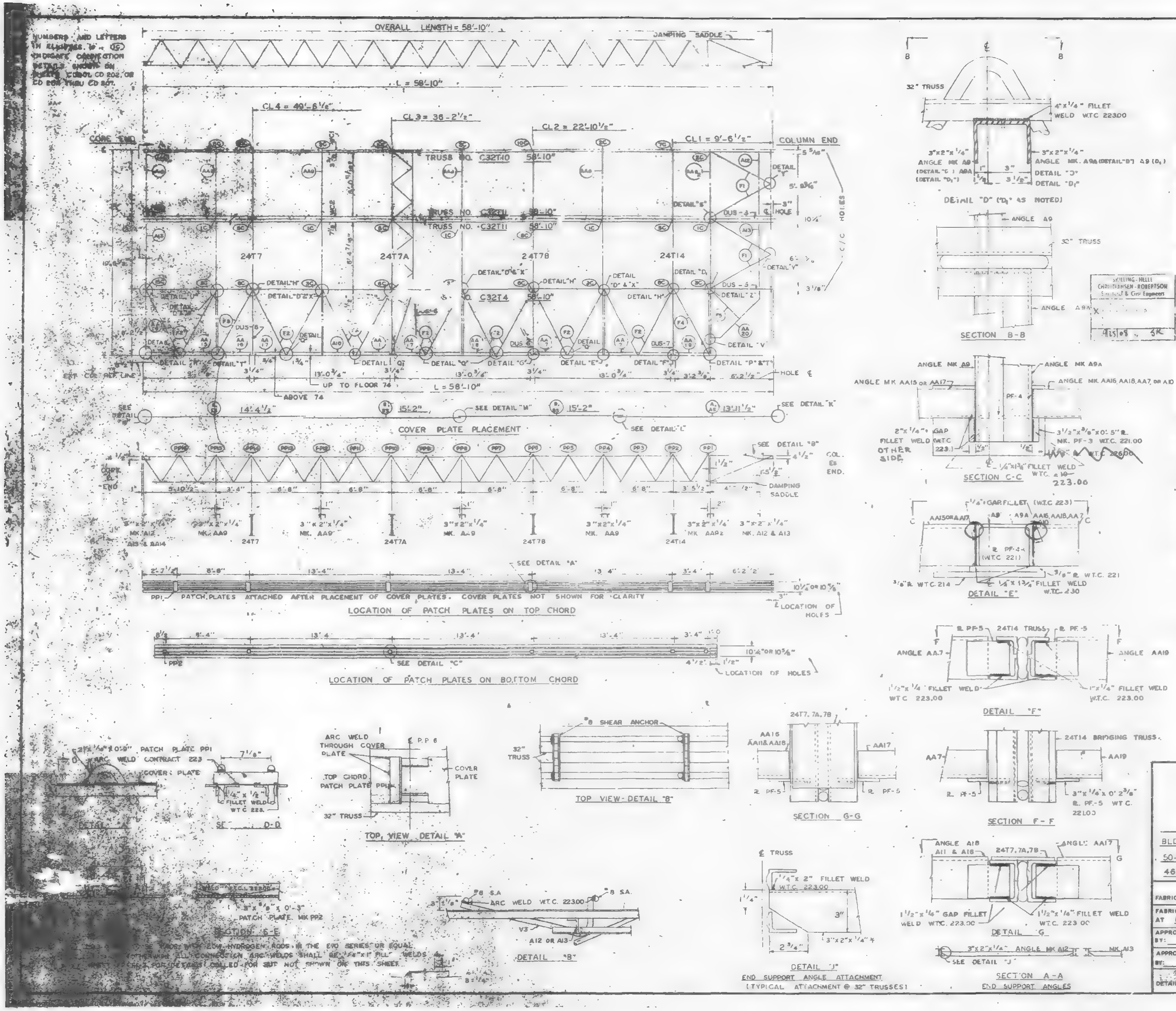
7-AB1-8	5-10-68	SA-124	10-20-67
7-AB1-9	5-10-68	7-AB4-14,14.1	1-3-68
7-AB1-10	5-10-68	7-AB4-15,16	5-6-68
7-AB2-2	4-1-68	7-AB4-21	1-3-68
7-AB2-9	4-1-68	7-AB4-23,25	4-1-68
7-AB3-2	1-3-68	7-AB4-29,38.2	4-1-68
7-AB3-13	5-10-68	7-AB4-39-41,43	1-3-68
7-AB4-3,3.1,4	1-3-68	7-AB4-42	4-1-68
		7-AB4-45,47,47.1	4-1-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24 26-40, 60-66, 68-74, 93-106 (NORTH & SOUTH)
50-58, 79-91 (SOUTH) PANEL F1 19'-6" x 58'-10"
46-58, 64-91 (NORTH)

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-13 5-10-68	PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A. — DATE 10/7/68	DRAWN BY: L.R. DATE JULY 15, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR — DATE	CHECKED BY: T.M.CHURA DATE JULY 16, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY: A. CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-F1



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T10	1	C32T10 - 58'-10"	ST210
	T11	2	C32T11 - 58'-10"	ST211
	T4	1	C32T4 - 58'-10"	ST204
BRIDGING TRUSSES	T7	1	24T7 - 19'-6"	BT207
	T7A	1	24T7A - 19'-6"	BT207A
	T7B	1	24T7B - 19'-6"	BT207B
	T14	1	24T14 - 19'-6"	BT214
3"x2"x 1/4" ANGLES	A0	1	3"x2"x 1/4"x 2'-7 15/16"	ST404
	A3	2	3"x2"x 1/4"x 6'-3 7/16"	ST404
	A12	2	3"x2"x 1/4"x 5'-11 11/16"	ST404
ANGLE ASSEMBLY	AA7	1	SEE REF. DRWG.	ST404
	AA9	4	SEE REF. DRWG.	ST404
	AA9₂	1	SEE REF. DRWG.	ST404
	AA11	1	SEE REF. DRWG.	ST404
	AA14	1	SEE REF. DRWG.	ST404
	AA15	1	SEE REF. DRWG.	ST404
	AA16	1	SEE REF. DRWG.	ST404
	AA17	3	SEE REF. DRWG.	ST404
	AA18	1	SEE REF. DRWG.	ST404
	AA19	1	SEE REF. DRWG.	ST404
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST402
	F2	14	1 1/2"x 5/8"x 6'-10 1/2"	ST402
	F3	1	1 1/2"x 5/8"x 6'-11 1/4"	ST402
	F4	1	1 1/2"x 5/8"x 7'-0"	ST402
	F5	1	1 1/2"x 5/8"x 4'-4"	ST402
PATCH PLATES	PP1	6	2"x 1/4"x 0'-9"	ST400
	PP2	6	3"x 3/8"x 0'-3"	ST400
COVER PLATES	A	1	9"x .0135"x 13'-11 1/2"	ST303
	B	2	9"x .0135"x 15'-2"	ST303
	E	1	9"x .0135"x 14'-4 1/2"	ST303
	As	1	3 1/2"x .0135"x 13'-11 1/2"	ST303
	Bs	2	3 1/2"x .0135"x 15'-2	ST303
	Es	1	3 1/2"x .0135"x 14'-4 1/2"	ST303
ANGLE CLIPS	C2	16	2 1/2"x 1 1/2"x 1/4"x 0'-6"	ST400
# 8 SHEAR ANCHOR	SA2	2	8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-3	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
	DUS-5	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST299
	DUS-6	3	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
	DUS-7	1	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
MISC. PLATES	PF-1	2	1 1/2"x 1/2"x 0'-4"	ST400
	PF-2	[illegible]	5"x 3/8"x 4"	ST401
	PF-3	5	3 1/2"x 3/8"x 0'-[illegible]"	ST400
CORNER ANGLE ASSEMBLY	AA20	1	SEE REF DRWG	ST405

NO	DATE	REVISION	BY
1	9-19-68	GENERAL	T.M.C.

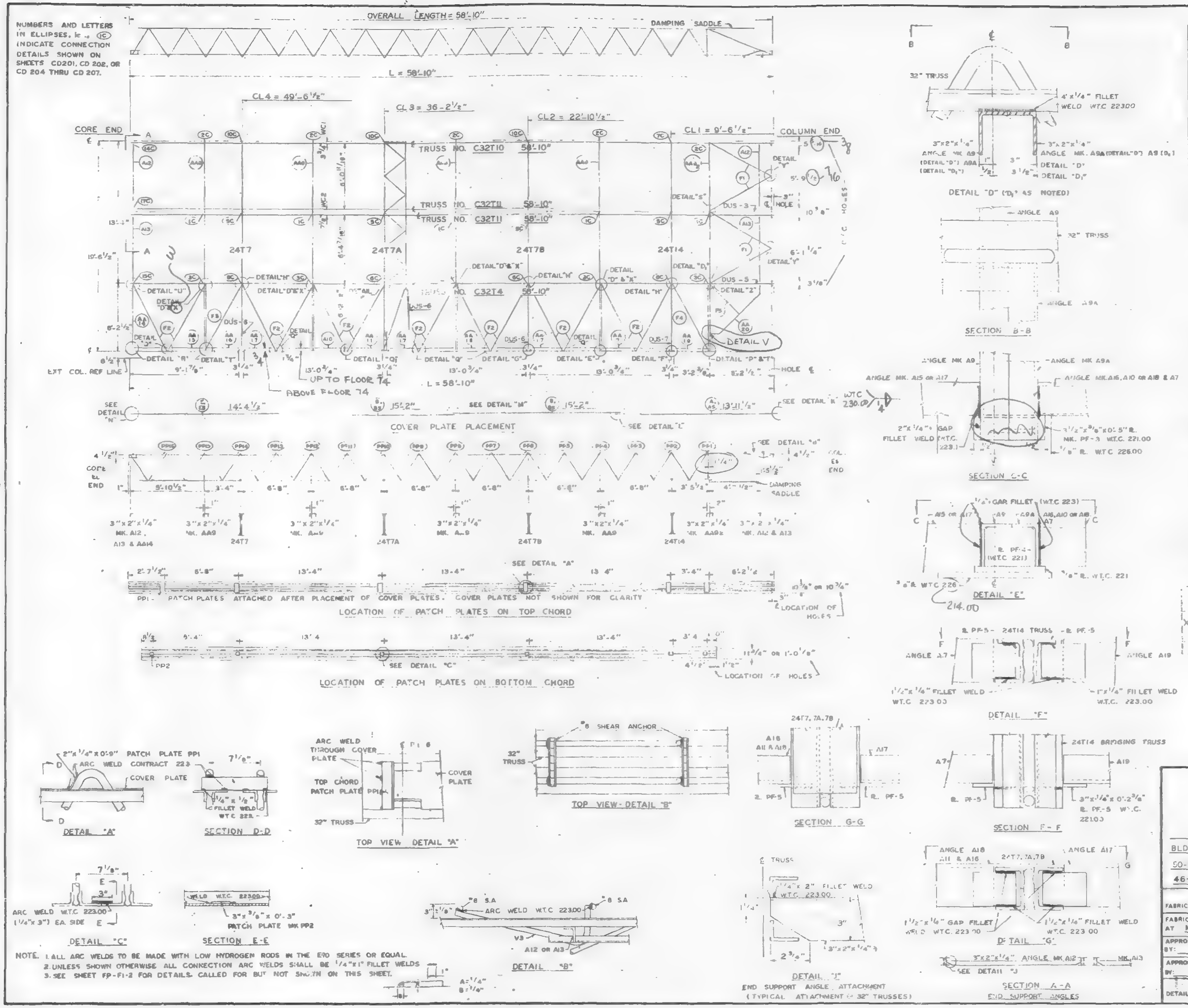
REF. DRWG.

7-AB1-8	5-10-68	SA-124	10-20-67
7-AB1-9	5-10-68	7-AB4-14,14.1	1-3-68
7-AB1-10	5-10-68	7-AB4-15,16	5-6-68
7-AB2-2	4-1-68	7-AB4-21	1-3-68
7-AB2-9	4-1-68	7-AB4-23-25	4-1-68
7-AB3-2	1-3-68	7-AB4-29,38.2	4-1-68
7-AB3-13	5-10-68	7-AB4-39-41,43	1-3-68
7-AB4-3,3.1,4	1-3-68	7-AB4-42	4-1-68
		7-AB4-45,47,47.1	4-1-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40, 60-66, 68-74, 93-106 (NORTH & SOUTH)
50-58, 79-91 (SOUTH) PANEL F1 19'-6" x 58'-10"
46-58, 84-91 (NORTH)

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-13 5-10-68
PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE
DRAWN BY: [illegible] DATE JULY 15, 1968
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE
CHECKED BY: T.M.CHURA DATE JULY 16, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY: A. CARL WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-F1



NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD201, CD 202, OR CD 204 THRU CD 207.

NOTE. 1. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
2. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4"x1" FILLET WELDS
3. SEE SHEET FP-F1-2 FOR DETAILS CALLED FOR BUT NOT SHOWN ON THIS SHEET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T10	1	C32T10 - 58'-10"	ST 210
	T11	2	C32T11 - 58'-10"	ST 211
	T4	1	C32T4 - 58'-10"	ST 204
BRIDGING TRUSSES	T7	1	24T7 - 19'-6"	BT 207
	T7A	1	24T7A - 19'-6"	BT 207A
	T7B	1	24T7B - 19'-6"	BT 207B
	T14	1	24T14 - 19'-6"	BT 214
3"x2"x 1/4" ANGLES	A10	1	3"x2"x1/4"x 2'-[illegible] 5/16"	ST404
	A13	2	3"x2"x1/4"x 6'-3 7/16"	ST404
	A12	2	3"x2"x1/4"x 5'-11 11/16"	ST404
ANGLE ASSEMBLY	AA1	1	SEE REF. DRWG.	ST404
	AA2	4	SEE REF. DRWG.	ST404
	AA9₂	1	SEE REF. DRWG.	ST404
	AA11		SEE REF. DRWG.	ST404
	AA14		SEE REF. DRWG.	ST404
	AA15	1	SEE REF. DRWG.	ST404
	AA16	1	SEE REF. DRWG.	ST404
	AA17	3	SEE REF. DRWG.	ST404
	AA18	1	SEE REF. DRWG.	ST404
	AA19	1	SEE REF. DRWG.	ST404
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST402
	F2	14	1 1/2"x 5/8"x 6'-10 1/2"	ST402
	F3	1	1 1/2"x 5/8"x 6'-11 1/4"	ST402
	F4	1	1 1/2"x 5/8"x 7'-0"	ST402
	F5	1	1 1/2"x 5/8 x 4'-4"	ST402
PATCH PLATES	PP1	6	2"x 1/4"x 0'-9"	ST400
	PP2	6	3"x 3/8"x 0'-3"	ST400
COVER PLATES	A	1	9 x 0135"x 13'-11 1/2"	ST303
	B	2	9"x 0135"x 15'-2"	ST303
	E	1	9"x 0135"x 14'-4 1/2"	ST303
	AS	1	3 1/2"x 0135"x 13'-11 1/2"	ST303
	BS	2	3 1/2"x 0135"x 15'-2	ST303
	ES	1	3 1/2"x 0135"x 14'-4 1/2"	ST303
ANGLE CLIPS	C2	16	2 1/2"x 1 1/2"x 1/4"x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	2	8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-3	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST298
	DUS-5	1	3 1/2"x 3 1/2"x 3/8"x 3'-6 7/8"	ST299
	DUS-6	3	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
	DUS-7	1	3 1/2"x 3 1/2"x 3/8"x 4'-4 7/8"	ST299
MISC. PLATES	PF-1	2	1 1/2"x 1/2"x 0'-4"	ST400
	PF-3	5	3 1/2"x 3/8"x 0'-[illegible]"	ST400
	PF-4	(5) 6	3 1/2"x 1/4"x 0'-2 3/4"	ST400
	PF-5	8	3"x 1/4"x 0'-2 3/8"	ST400
	PF-6	(2) 1	2 1/4"x 1/4"x 0'-(4 1/2) 5 1/2	ST401
CORNER ANGLE ASSEMBLY	AA20	1	SEE REF. DRWG.	ST405
	PF7	1	3 1/4 x 1/4 x 6	
	PF8	1	3 x 3/8 x 4	

9/10/68 SK

REF. DRWG.			
7-AB1-8	5-10-68	SA-124	10-20-67
7-AB1-9	5-10-68	7-AB4-14, 14.1	1-3-68
7-AB1-10	5-10-68	7-AB4-15, 16	5-6-68
7-A92-2	4-1-68	7-AB4-21	1-3-68
7-AB2-9	4-1-68	7-AB4-23-25	4-1-68
7-AB[illegible]-7	1-3-68	7-AB4-29, 38.2	4-1-68
7-AB3-13	5-10-68	7-AB4-39-41, 43	1-3-68
7-AB4-3, 3.1, 4	1-3-68	7-AB4-42	4-1-68
		7-AB4-45, 47, 47.1	4-1-68

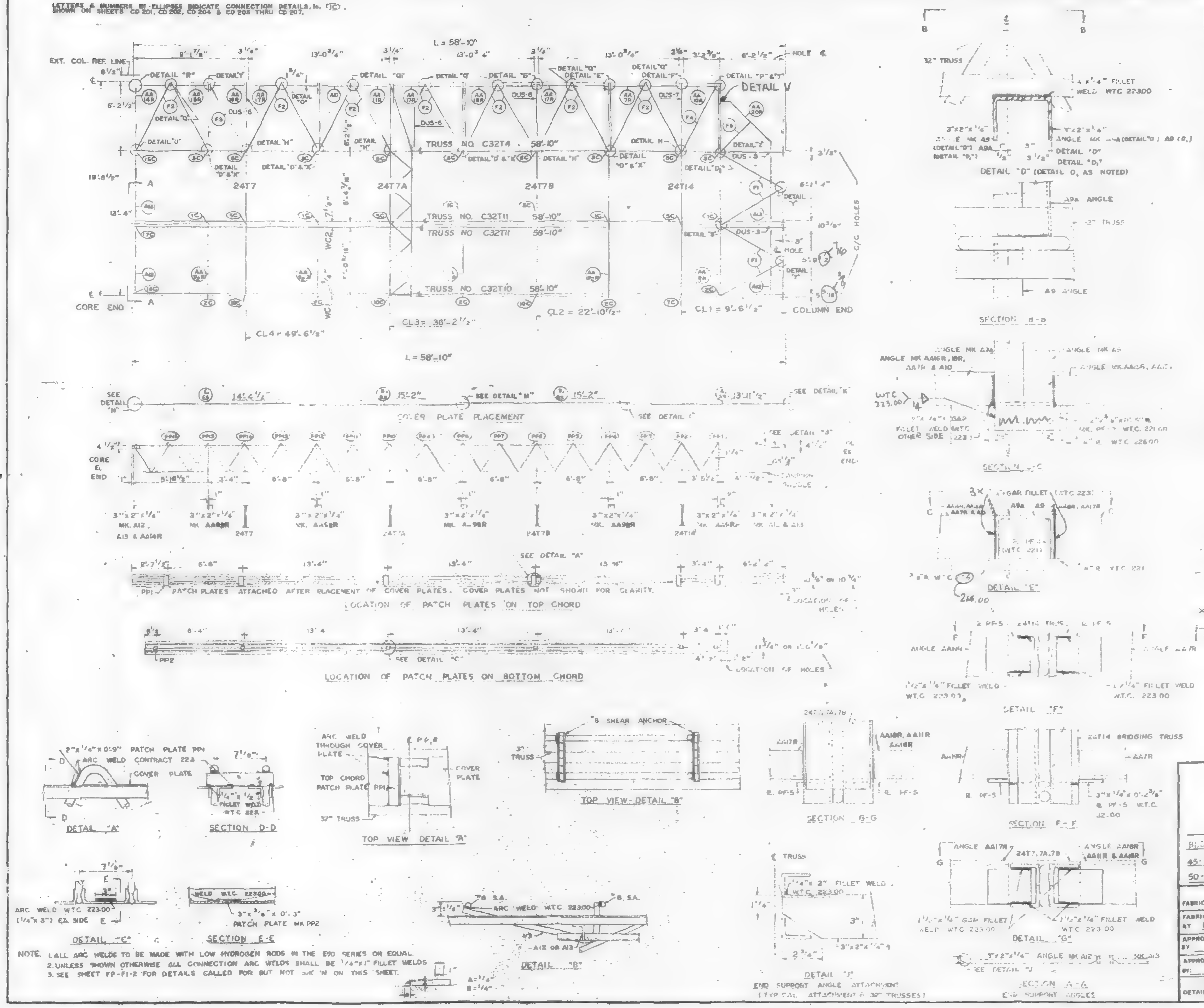
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40, 60-66, 68-74, 93-106 (NORTH & SOUTH)
50-58, 79, 81 (SOUTH) PANEL F1 19'-6" x 58'-10"
46-58, 84-91 (NORTH)
91

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7 AB3-13 5-10-68	PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE	DRAWN BY: [illegible] DATE JULY 15, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE	CHECKED BY: T.M. CHURA DATE JULY 16, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: A CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-F1

LETTERS & NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e. (1C), SHOWN ON SHEETS CD 201, CD 202, CD 204 & CD 205 THRU CD 207.



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T10	1	C32T10 - 58'-10"	ST 210
	T11	2	C32T11 - 58'-10"	ST211
	T4	1	C32T4 58'-10"	ST 204
BRIDGING TRUSSES	T7	1	24T7 - 19'-8"	BT 207
	T7A	1	24T7A - 19'-8"	BT 207A
	T7B	1	24T7B - 19'-8"	BT 207B
	T14	1	24T14 - 19'-8"	BT 214
3"x2"x1/4" ANGLES	[illegible]		3"x2"x1/4"x2' [illegible]	ST404
	A 3	2	3"x2"x1/4"x6'-3 7/16"	ST404
	A [illegible]	2	3"x2"x1/4"x5'-11" [illegible]	ST404
ANGLE ASSEMBLY	AA7R	1	SEE REF DRWG	ST406
	AA9R	1	SEE REF DRWG	ST406
	AA[illegible]R	4	SEE REF DRWG	ST406
	AA11R	1	SEE REF DRWG	ST406
	AA14R	1	SEE REF DRWG	ST406
	AA15R	1	SEE REF DRWG	ST406
	AA16R	1	SEE REF DRWG	ST406
	AA17R	3	SEE REF DRWG	ST406
	AA18R	1	SEE REF DRWG	ST406
	AA19R	1	SEE REF DRWG	ST406
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x6'-8"	ST402
	F2	14	1 1/2"x5/8"x6'-10 1/2"	ST402
	F3	1	1 1/2"x5/8"x6'-11 1/4"	ST402
	F4	1	1 1/2"x5/8"x7'-0"	ST402
	F5	1	1 1/2"x5/8"x4'-4"	ST402
PATCH PLATES	PP1	6	2"x1/4"x0'-9"	ST400
	PP2	6	3"x3/8"x0'-3"	ST400
COVER PLATES	A	1	9"x.0135"x13'-11 1/2"	ST303
	B	2	9"x.0135"x15'-2"	ST303
	E	1	9"x.0135"x14'-4 1/2"	ST303
	AS	1	3 1/2"x.0135"x13'-11 1/2"	ST303
	BS	2	3 1/2"x.0135"x15'-2"	ST303
	ES	1	3 1/2"x.0135"x14'-4 1/2"	ST303
ANGLE CLIPS	[illegible]2	16	2 1/2"x1 1/2"x1/4"x0'-6"	ST400
"B SHEAR ANCHOR	SA[illegible]	2	B REBAR x 0'-9"	ST400
DAMPING SADDLE	[illegible]-3		3 1/2"x3 1/2"x3/8"x[illegible]	ST298
	[illegible] 15-5	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST299
	[illegible] 15-6	3	3 1/2"x3 1/2"x3/8"x4'-4 7/8"	ST299
	[illegible]		3 1/2"x3 1/2"x3/8"x4'-4 7/8"	ST298
MISC. PLATES	PF-1	2	1 1/2"x1/4"x0'-4"	ST400
	PF-3	5	3 1/2"x3/8"x0'-[illegible]	ST400
	PF-4	5	3 1/2"x[illegible]"x0'-2 3/4"	ST400
	PF-5	6	3"x1/4"x0'-2 3/8"	ST400
	PF-6	2	2 1/4"x[illegible]"x0'-4 1/2"	ST401
CORNER ANGLE ASSEMBLY	AA20R	1	SEE REF. DRWG	ST405
	PF7	1	2 1/4 x 1/4 x 6	
	PF8	1	3 x 3/8 x 4	

9/16/68 SK

REF DRWG			
7-AB1-[illegible]	5-10-68	7-AB4-14,14.1	1-3-68
7-AB1-9	5-10-68	7-AB4-15,16	5-8-68
7-AB1-10	5-10-68	7-AB4-21	[illegible]-68
7-AB2-2	4-1-68	7-AB4-23-25	4-1-68
7-AB2-9	4-1-68	7-AB4-29,36.2	4-1-68
7-AB3-2	1-3-68	7-AB4-39-41,43	1-3-68
7-AB3-13	5-10-68	7-AB4-42	4-1-68
7-AB4-3,3.1,4	1-3-68	7-AB4-45,47,47.1	[illegible]-68
SA-124	10-20-67		

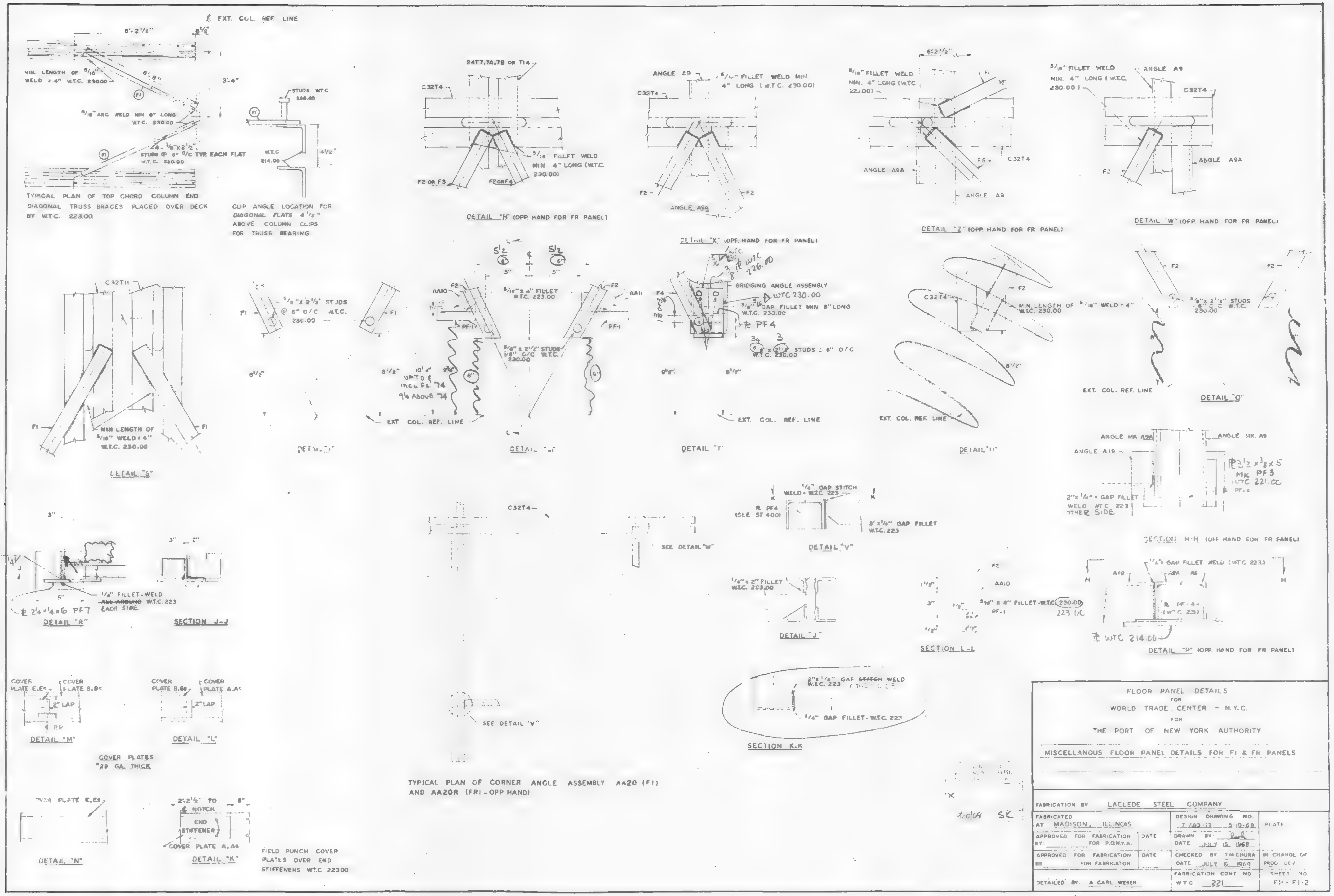
NOTE: 1. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
2. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4"x1" FILLET WELDS
3. SEE SHEET FP-F1-2 FOR DETAILS CALLED FOR BUT NOT SHOWN ON THIS SHEET.

[illegible] PANEL DETAILS
FOR
WORLD TRADE CENTER ~ N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40, 60-66, 68-74, 93-106 (NORTH & SOUTH)
45-58, 94-[illegible] (NORTH) PANEL FR1 19'-6" x 58'-10"
50-58, 80-91 (SOUTH)

FABRICATION BY: LACLEDE STEEL COMPANY

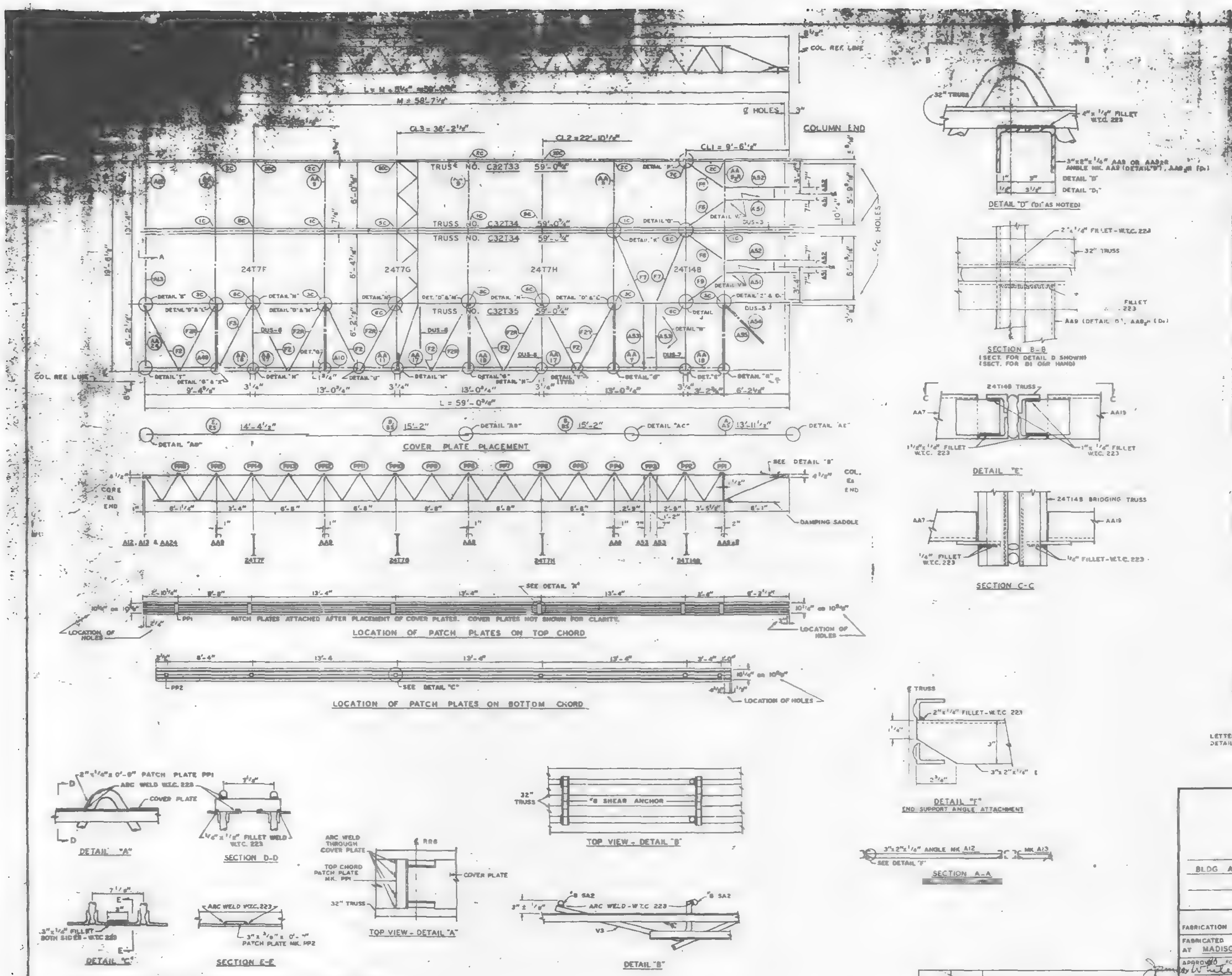
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-14 5-10-68	PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE	DRAWN BY [illegible] DATE JULY 15, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.M. CHURA DATE JULY 16, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: [illegible] LACLEDE STEEL CO.		FABRICATION CONT. NO W.T.C. 221	SHEET NO. FP-FR1



FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

MISCELLANOUS FLOOR PANEL DETAILS FOR F1 & FR PANELS

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7 483-13 5-10-68	PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE	DRAWN BY: DATE JULY 15, 1968	
APPROVED FOR FABRICATION FOR FABRICATOR DATE	CHECKED BY T M CHURA DATE JULY 16 1968	IN CHARGE OF PROD. DEV
DETAILED BY. A CARL WEBER	FABRICATION CONT NO W T C 221	SHEET NO FP - F1-2



[illegible]				
3"x2"x 1/4" ANGLES	[illegible]	[illegible]	[illegible]	[illegible]
	AA2	2	[illegible]	[illegible]
	AB3	2	[illegible]	[illegible]
	A54	1	[illegible]	[illegible]
	A55	1	3"x2"x 1/4"x 4'-3"	ST 412
ANGLE ASSEMBLY	AA7	1	SEE REF. DRWG.	ST 4[illegible]
	AA8	4	SEE REF. DRWG.	ST 404
	AA9R	1	SEE REF. DRWG.	ST 404
	AA11	1	SEE REF. DRWG.	ST 404
	AA16	1	SEE REF. DRWG.	ST 404
	AA17	3	SEE REF. DRWG.	ST 406
	AA18	1	SEE REF. DRWG.	ST 404
	AA19	1	SEE REF. DRWG.	ST 404
	AA24	1	SEE REF. DRWG.	ST 412
DIAGONAL FLATS	F2	8	1 1/2"x 5/8"x 8'-10 1/4"	ST 402
	F2R	6	1 1/2"x 5/8"x 8'-10 1/4"	ST 402
	F3	1	1 1/2"x 5/8"x 8'-11 1/4"	ST 402
	F6	3	1 1/2"x 5/8"x 6'-2 3/4"	ST 415
	F7	2	1 1/2"x 5/8"x 7'-0"	ST 415
	F8	1	1 1/2"x 5/8"x 4'-6 1/2"	ST 415
PATCH PLATES	PP1	6	2"x 1/4"x 0'-9"	ST 400
	PP2	6	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	1	9"x .0135"x 13'-11 1/2"	ST 303
	B	2	9"x .0135"x 15'-2"	ST 303
	E	1	9"x .0135"x 14'-4 1/2"	ST 303
	As	1	3 1/2"x .0135"x 13'-11 1/2"	ST 303
	Bs	2	3 1/2"x .0135"x 15'-2"	ST 303
	Es	1	3 1/2"x .0135"x 14'-4 1/2"	ST 303
ANGLE CLIPS	C1	9	2"x 1 1/2"x 1/4"x 0'-6"	ST 400
	C2	7	2 1/2"x 1 1/2"x 1/4"x 0'-6"	ST 400
	C3	1	3"x 2"x .37"x 0'-3"	ST 418
DAMPING SADDLE	DUS-3	1	[illegible]	ST 298
	DUS-5	1	3 1/2"x 3 1/2"x 3/8"x 3'-[illegible]	ST 299
	DUS-6	3	3 1/2"x 3 1/2"x 3/8"x 4'-[illegible]	ST 299
	DUS-7	1	3 1/2"x 3 1/2"x 3/8"x 4'-[illegible]	ST 298
MISC. PLATES	PF-1	2	1 1/2"x 1/2"x 0'-4"	ST 400
	PF-3	5	3 1/2"x 3/8"x 0'-5"	ST 400
	PF-12	2	6 1/2"x 1/2"x 1'-0"	ST 416
	PF-13	2	1"x 1/4"x 1'-0"	ST 416
	PF-14	2	3"x 1/4"x 0'-7"	ST 416
	PF-15	2	1 1/2"x 1/2"x 0'-2"	ST 416
	PF-16	2	6 1/4"x 1/2"x 0'-2"	ST 416
	PF-17	2	3"x 1/4"x 3 1/2"	ST 416
	PF-18	3	2"x 1/4"x 1'-1 5/8"	ST 416
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400

LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 204 & CD 229, i.e. (1C)

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
SEE SHEET FP-F8-2 OR FP-F8-3 FOR DETAILS CALLED BUT NOT SHOWN ON THIS SHEET.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FILLET.
STEEL DECK NOT SHOWN ON DETAILS FOR CLARITY.

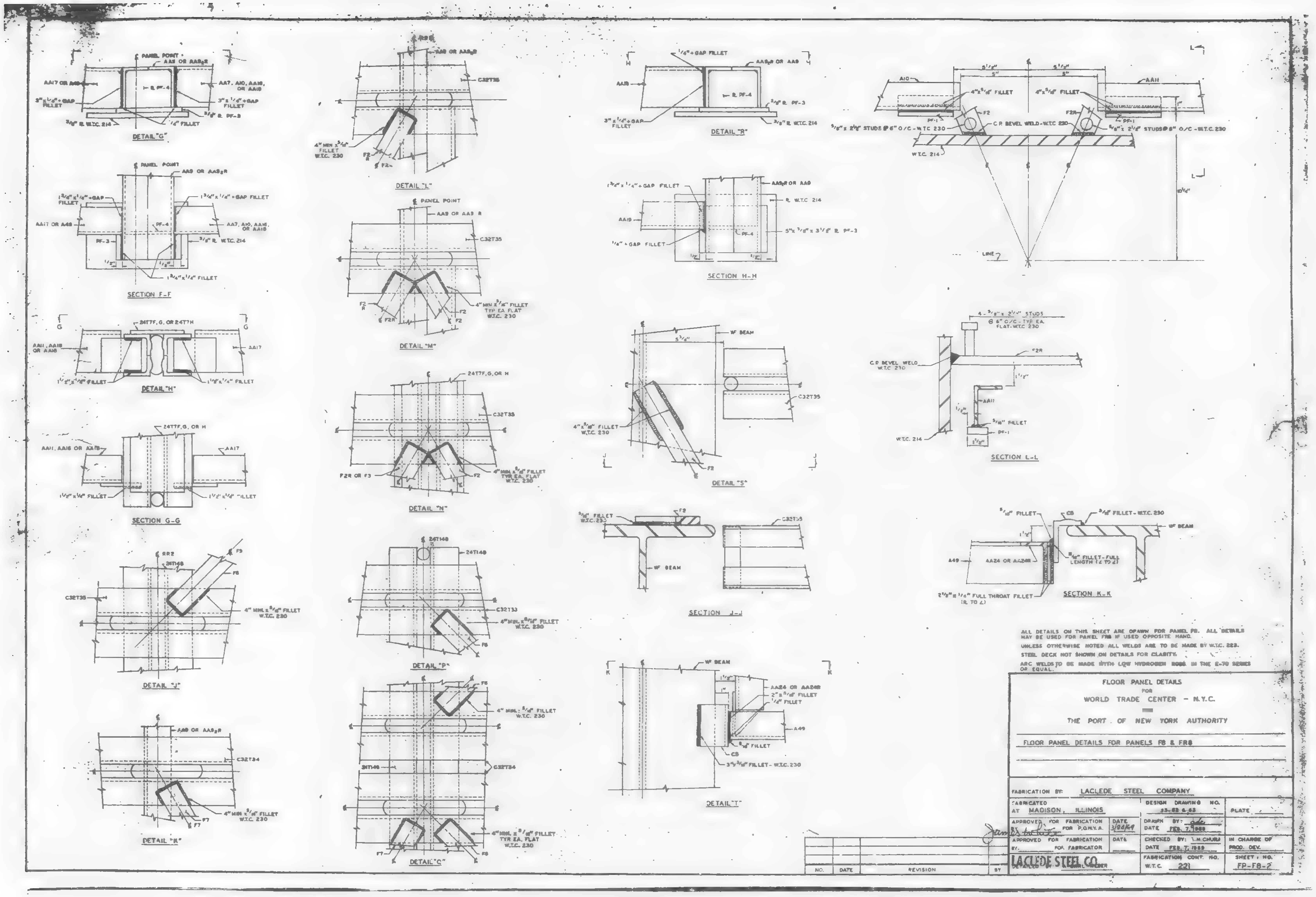
NO.	DATE	REVISION	BY

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

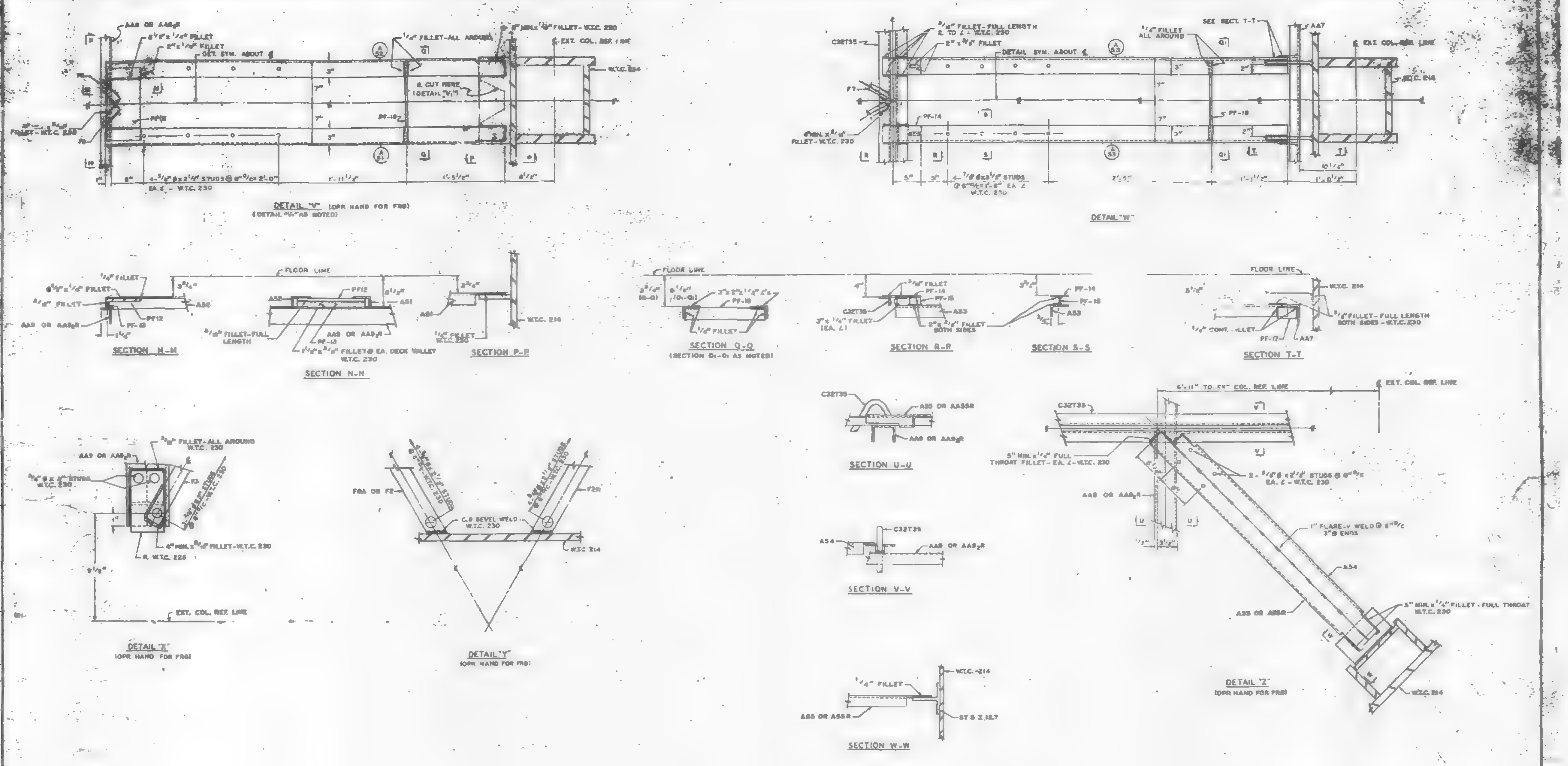
BLDG A FLOORS 44 (SOUTH)

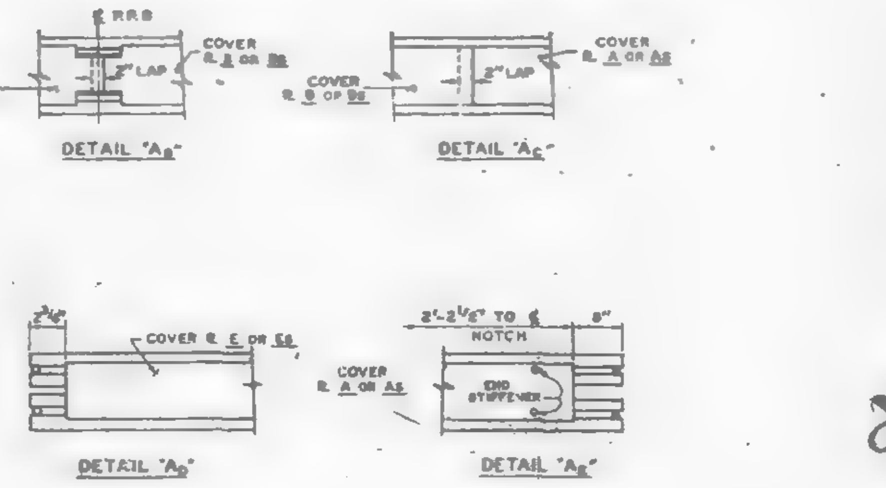
PANEL F8 19'-6" x 59'-0 3/4"

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A03-62
PLATE 1
APPROVED FOR FABRICATION BY W. White FOR P.O.N.Y.A. DATE 3/24/69
DRAWN BY gdc DATE FEB. 7, 1969
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE ____
CHECKED BY: T.M CHURA DATE FEB. 7, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY: A CARL WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO FP-F8



DETAIL "G"
SECTION F-F
DETAIL "H"
SECTION G-G
DETAIL "J"
DETAIL "K"
DETAIL "L"
DETAIL "M"
DETAIL "N"
DETAIL "P"
DETAIL "Q"
DETAIL "R"
SECTION H-H
DETAIL "S"
SECTION J-J
DETAIL "T"
SECTION L-L
SECTION K-K
ALL DETAILS ON THIS SHEET ARE DRAWN FOR PANEL F8. ALL DETAILS MAY BE USED FOR PANEL FR8 IF USED OPPOSITE HAND.
UNLESS OTHERWISE NOTED ALL WELDS ARE TO BE MADE BY W.T.C. 223.
STEEL DECK NOT SHOWN ON DETAILS FOR CLARITY.
ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
THE PORT OF NEW YORK AUTHORITY
FLOOR PANEL DETAILS FOR PANELS F8 & FR8
FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 33-82 & 63
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.
DATE 3/24/69
DRAWN BY:
DATE FEB. 7, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE
CHECKED BY: T.M. CHURA
DATE FEB. 7, 1969
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-F8-2
NO.
DATE
REVISION
BY





ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS OTHERWISE NOTED ALL ARC WELDS BY W.T.C. 223.
STEEL DECK NOT SHOWN ON DETAILS FOR CLARITY.

REF. DRWG.

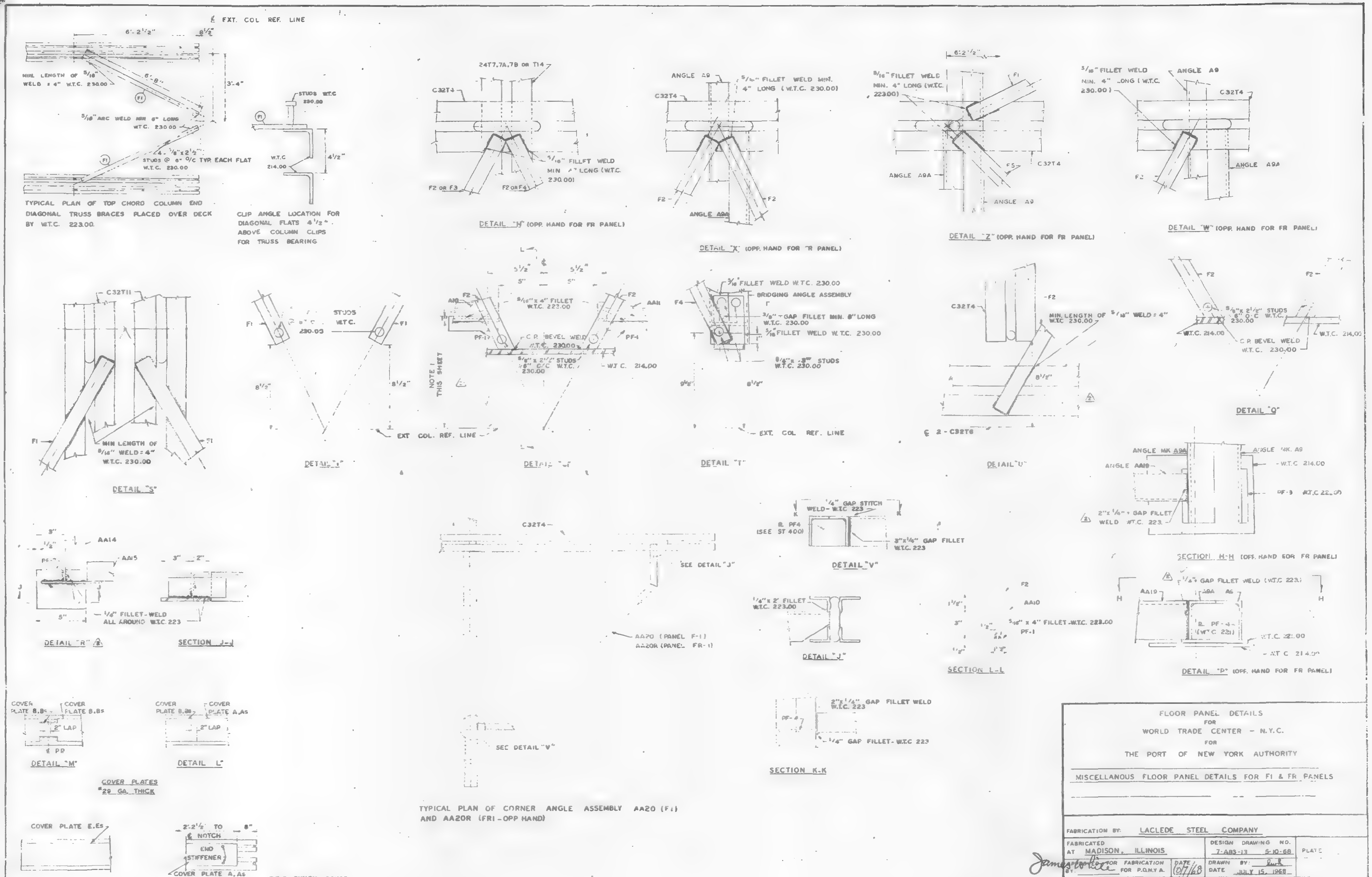
7-AB3-82	1-20-69	7-AB4-45.1	11-25-69
7-AB3-83	1-20-69	7-AB4-21	1-6-69
8A-124	1-6-69	7-AB4-22	1-6-69
7-AB1-20	1-6-69	7-AB4-22.1	7-22-69
7-AB1-21	1-6-69	7-AB4-23	7-22-69
7-AB1-28	1-6-69	7-AB4-24	10-15-69
7-AB2-18	1-6-69	7-AB4-26	7-22-69
7-AB2-8	1-6-69		
7-AB4-31.1	1-20-69		
7-AB4-34.1	1-20-69		
7-AB4-38.3	1-20-69		

NO.	DATE	REVISION	BY

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR PANEL DETAILS FOR PANELS FB & FB8.

FABRICATION BY: LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-82 & 83	PLATE
APPROVED FOR FABRICATION BY [signature] FOR P.O.N.Y.A. — DATE 3/24/69	DRAWN BY: [initials] DATE FEB 7, 1969	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR — DATE	CHECKED BY: T.N. CHURA DATE FEB. 7, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY: A. CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-FB-3



NOTE

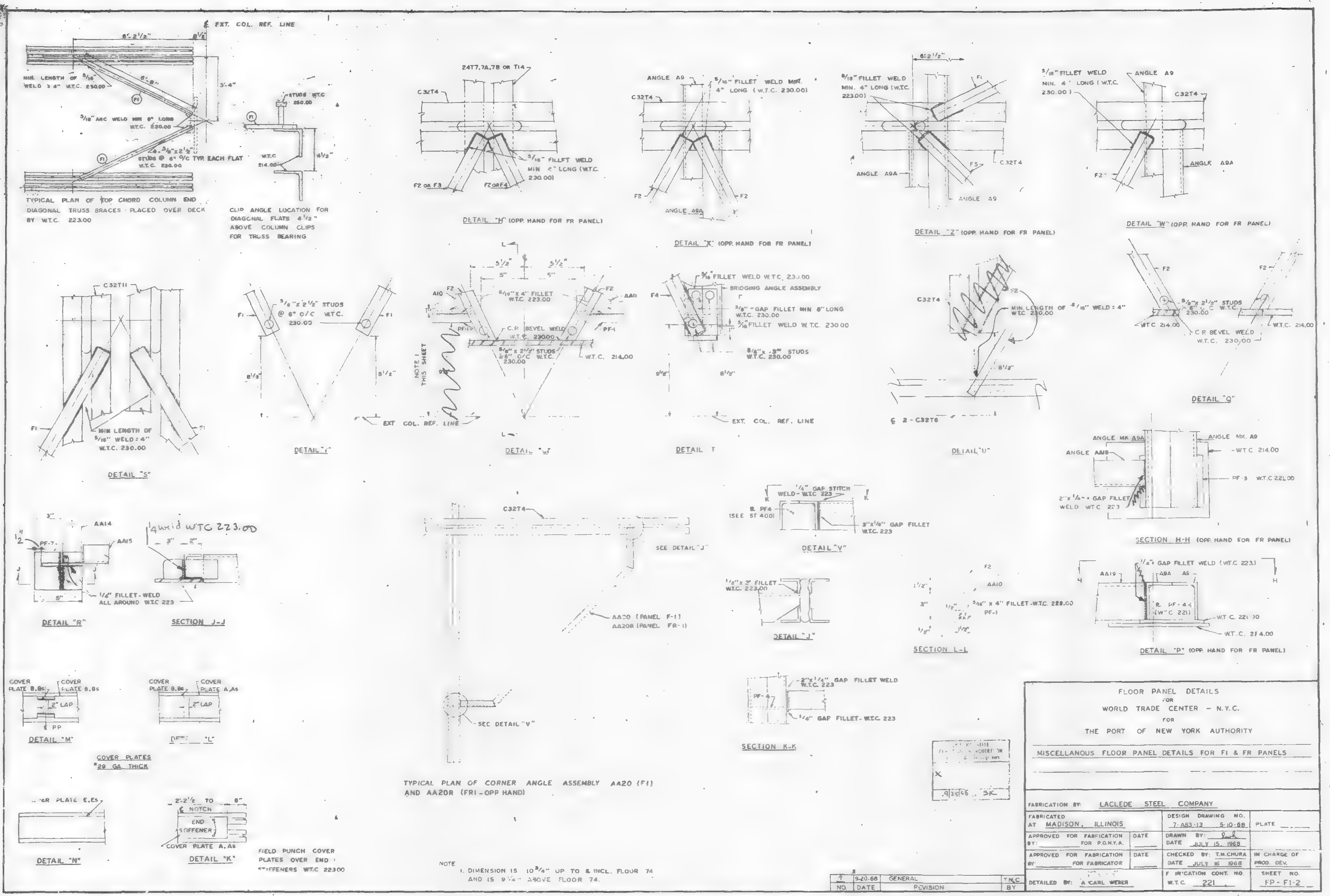
1. DIMENSION IS 10 3/4" UP TO & INCL. FLOOR 74 AND IS 9 1/4" ABOVE FLOOR 74.

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

MISCELLANOUS FLOOR PANEL DETAILS FOR F1 & FR PANELS

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-13 5-10-68
PLATE
FOR FABRICATION FOR P.O.N.Y.A. DATE 10/7/68
DRAWN BY: ... DATE JULY 15, 1968
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE
CHECKED BY: T.M.CHURA DATE JULY 16 1968
FABRICATION CONT. NO W.T.C. 221
DETAILED BY: "A" CARL WEBER

NO.	DATE	REVISION	BY
2	9-30-68	AS NOTED	T.M.C
1	9-20-68	GENERAL	T.M.C.



NO.	DATE	REVISION	BY
1	9-20-68	GENERAL	T.M.C.

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

MISCELLANEOUS FLOOR PANEL DETAILS FOR F1 & FR PANELS

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-13 5-10-68
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE
DRAWN BY: DATE JULY 15, 1968
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE
CHECKED BY: T.M.CHURA DATE JULY 16 1968
IN CHARGE OF PROD. DEV.
DETAILED BY: A. CARL WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-F1-2

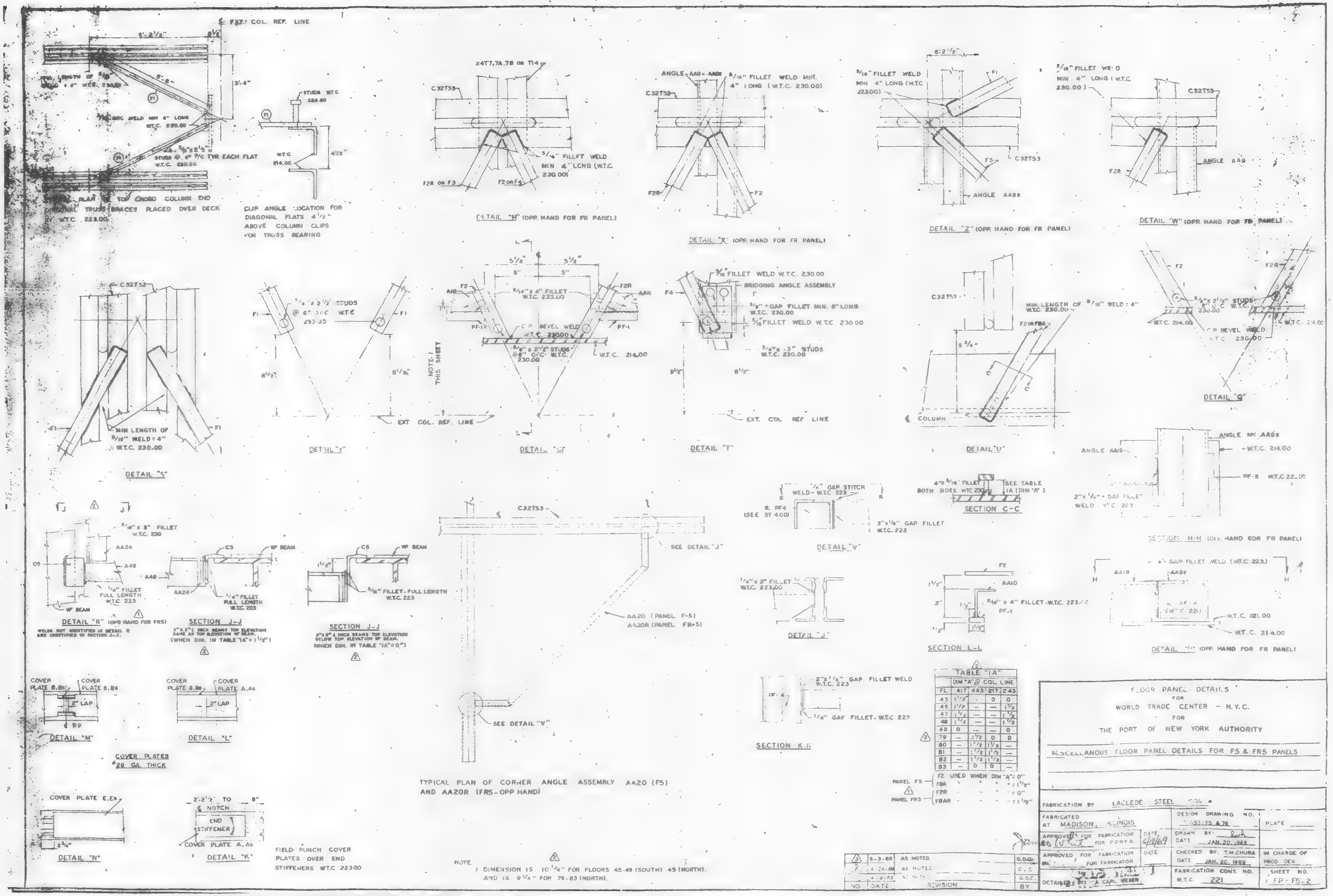


TABLE "IA"

	DIM "A" @ COL. LINE			
FL	417	443	217	243
45	1 1/2	-	0	0
45	1 1/2	—	—	1 1/2
47	1 1/2	—	—	1 1/2
48	1 1/2	—	—	1 1/2
49	0	—	—	0
79	—	1 1/2	0	0
80	—	1 1/2	1 1/2	—
81	—	1 1/2	1 1/2	—
82	—	1 1/2	1 1/2	—
83	—	0	0	—

PANEL F5 — F2 USED WHEN DIM "A" = 0"; F8A USED WHEN DIM "A" = 1 1/2"
PANEL FR5 — F2R USED WHEN DIM "A" = 0"; F8AR USED WHEN DIM "A" = 1 1/2"

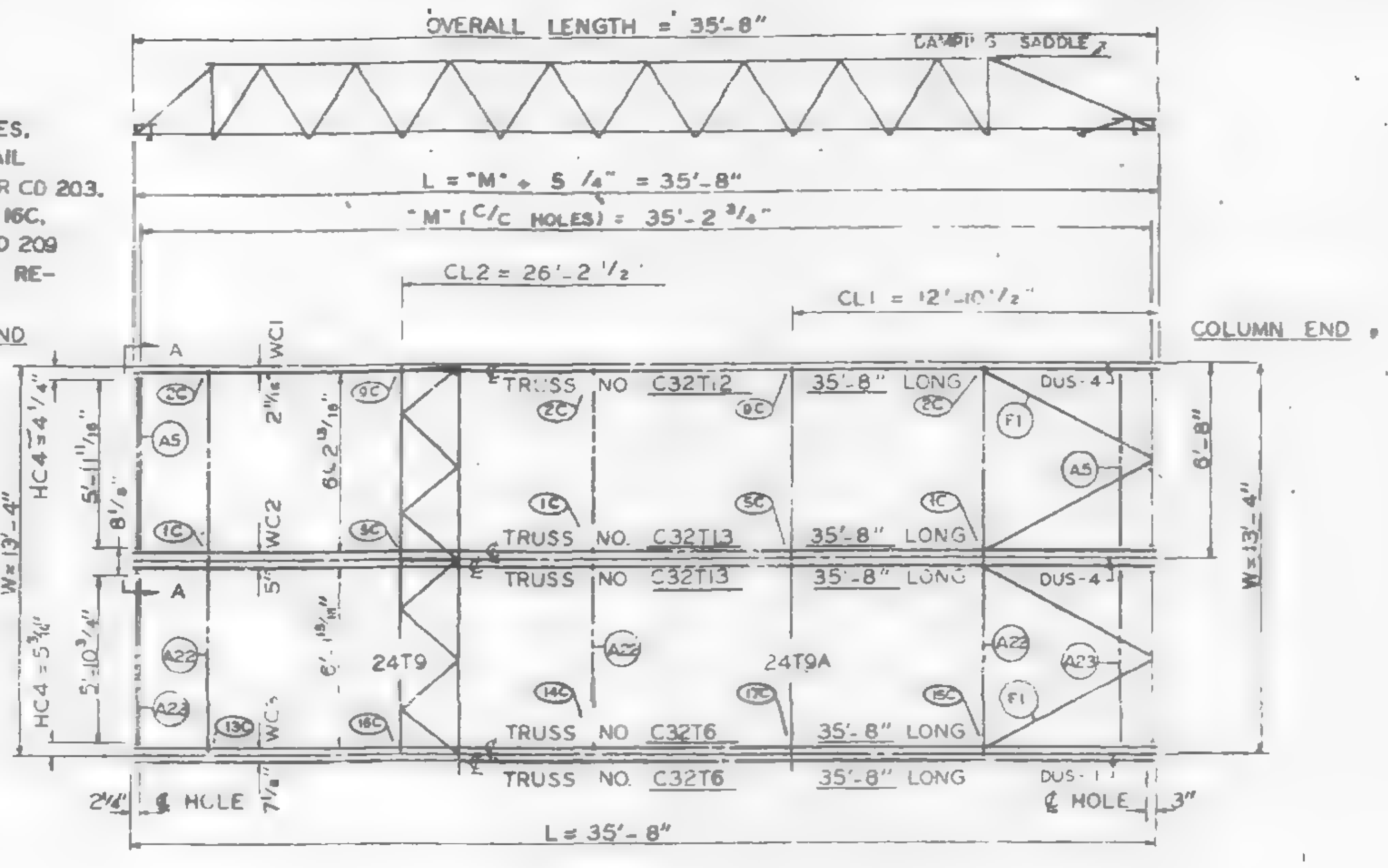
NO	DATE	REVISION	BY
3	6-3-69	AS NOTED	G.D.G.
2	4-24-69	AS NOTED	G.D.C.
[illegible]	4-9-69	AS NOTED	G.D.C.

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

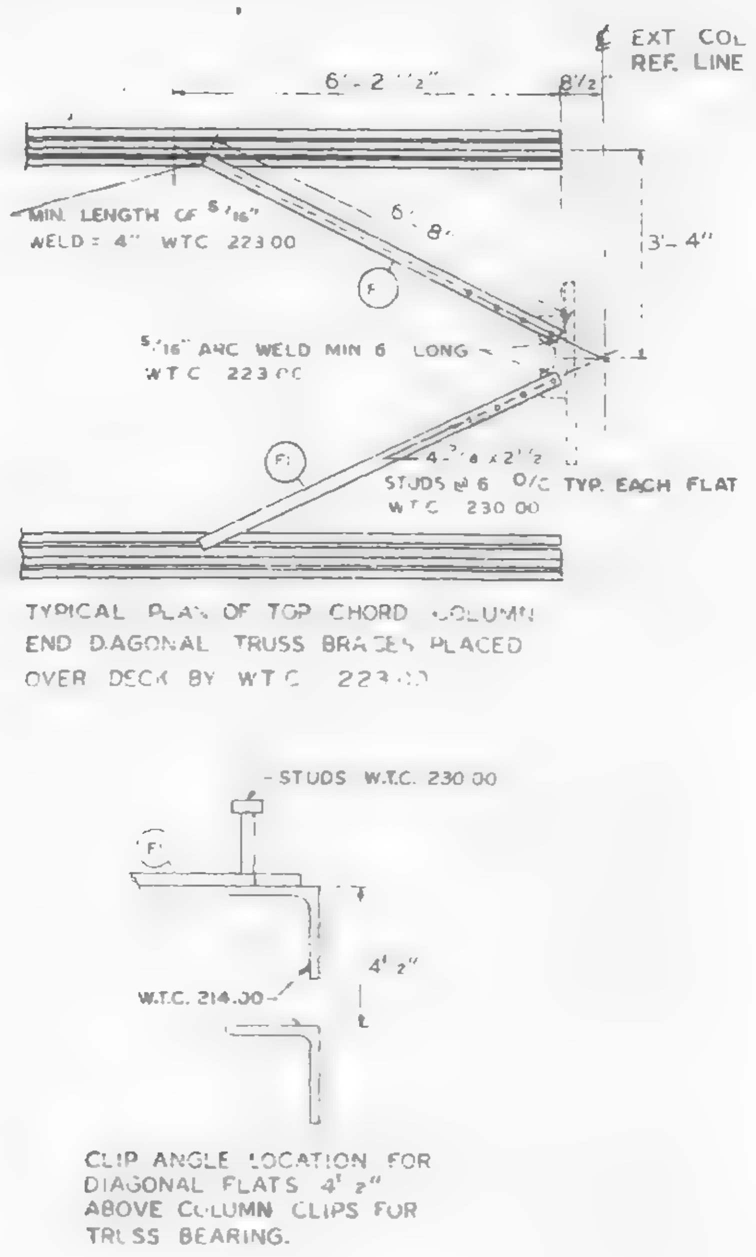
MISCELLANOUS FLOOR PANEL DETAILS FOR F5 & FR5 PANELS

FABRICATION BY LACLEDE STEEL CO.
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 6/12/69
APPROVED FOR FABRICATION FOR FABRICATOR DATE
DETAILED BY: A. CARL WEBER
DESIGN DRAWING NO. [illegible] 33-75 & 76
DRAWN BY: [illegible] DATE JAN. 20, 1969
CHECKED BY: T.M. CHURA DATE JAN. 20, 1969
FABRICATION CONT. NO. W.T.C. 221
PLATE
IN CHARGE OF PROD. DEV.
SHEET NO. FP-F5-2

LETTERS AND NUMBERS IN ELLIPSES, ie.(1C), INDICATE CONNECTION DETAIL SHOWN ON SHEET CD 201, CD202 OR CD 203. SPECIAL CONNECTIONS 13C, 14C, 15C, 16C, AND 17C ARE SHOWN ON SHEETS CD 209 CD 207, CD 205, CD 208, AND CD 206 RESPECTIVELY.



PANEL G1 SIZE 13'-4" x 35'-8"

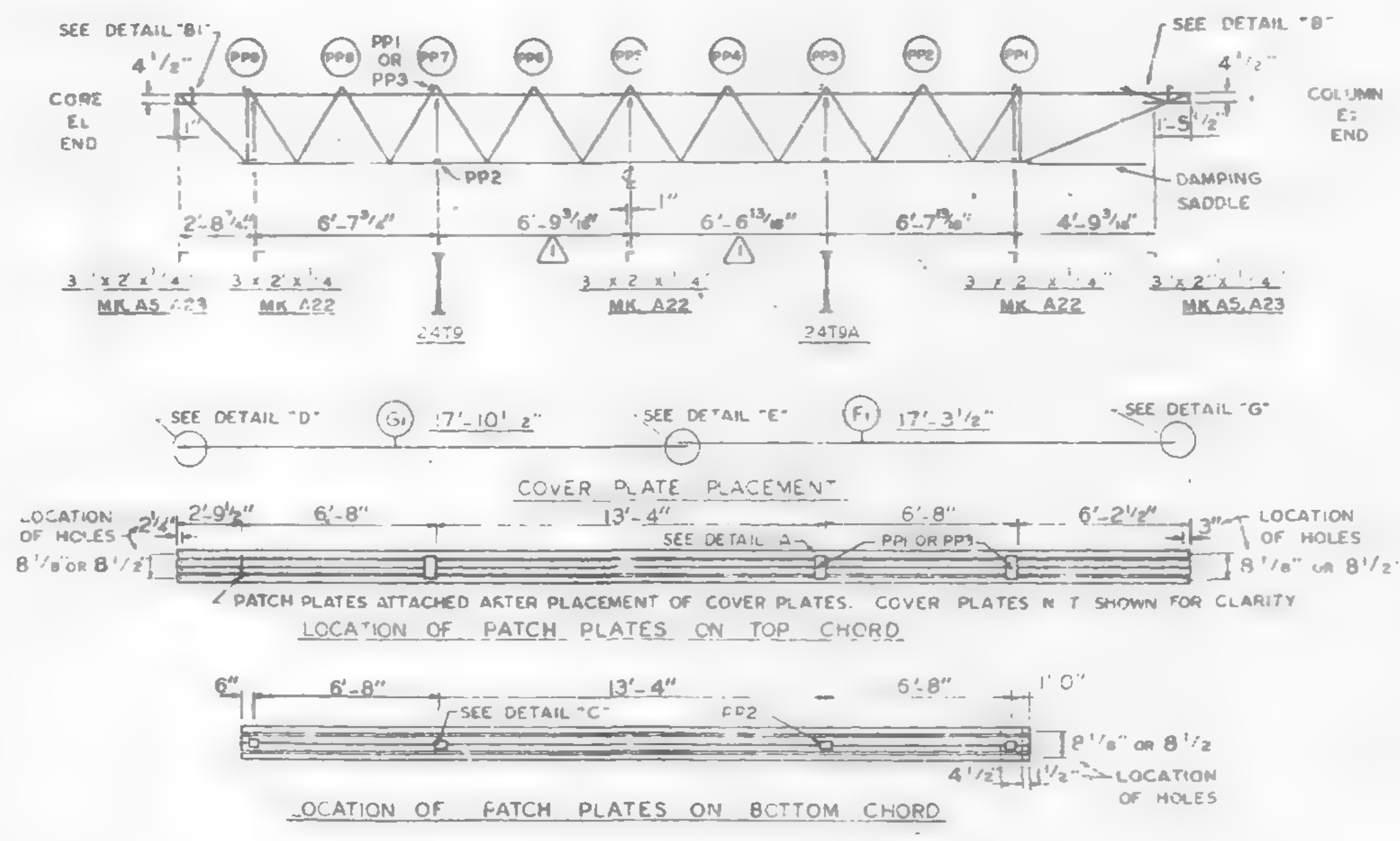


REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T6	2	C32T6 - 35'-8"	ST 206
	T12	1	C32T12 - 35'-8"	ST 212
	T13	2	C32T13 - 35'-8"	ST 213
BRIDGING TRUSSES	T9	1	24T9 - 13'-2 3/4"	ST 209
	T9A	1	24T9A - 13'-2 3/4"	ST 209A
3"x 2"x 1/4" ANGLE	A5	2	3"x2"x1/4" x 8'-1 13/16"	ST 403
	A22	2	3"x2"x1/4" x 13'-3 1/2"	ST 405
	A23	2	3"x2"x1/4" x 6'-0 7/8"	ST 405
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	4	2" x 1/4" x 0'-9"	ST 400
	PP2	8	3" x 1/8" x 0'-3"	ST 400
	PP3	4	2" x 1/4" x 0'-7"	ST 400
COVER PLATES	G1	1	7" x 0.135 x 7'-0 1/2"	ST 303
	F1	1	7" x 0135 x 7'-3 1/2"	ST 303
	G	1	9" x .0135" x 17'-10 1/2"	ST 303
	F	1	9" x 0135" x 17'-3 1/2"	ST 303
ANGLE	C1	2**	2" x 2" x 4" x 6"	ST 400
	C2	6**	2" x 2" x 4" x 6"	
3	C1	8*	2" x 1 1/2" x 1/4" x 6"	ST 400
#8 SHEAR ANCHOR	SA1	3	#8 REBAR x 0'-7"	ST 400
	SA2	3	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE		1	3 1/2 x 3 x 3/8" x 3 6 7/8	ST298
	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3.68"	ST298
CONNECTION PLATES				
SPECIAL CONNECTION UNITS	13C		SEE REF. DRWG.	ST 274
	14C	1	SEE REF. DRWG.	ST 272
	15C		SEE REF. DRWG.	ST 270
	16C	1	SEE REF. DRWG.	ST 273
	17C	1	SEE REF. DRWG.	ST 271

3 *CHANGE BECOMES EFFECTIVE AFTER FLOOR 33, TOWER A.
**UP TO FLOOR 33, TOWER A

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

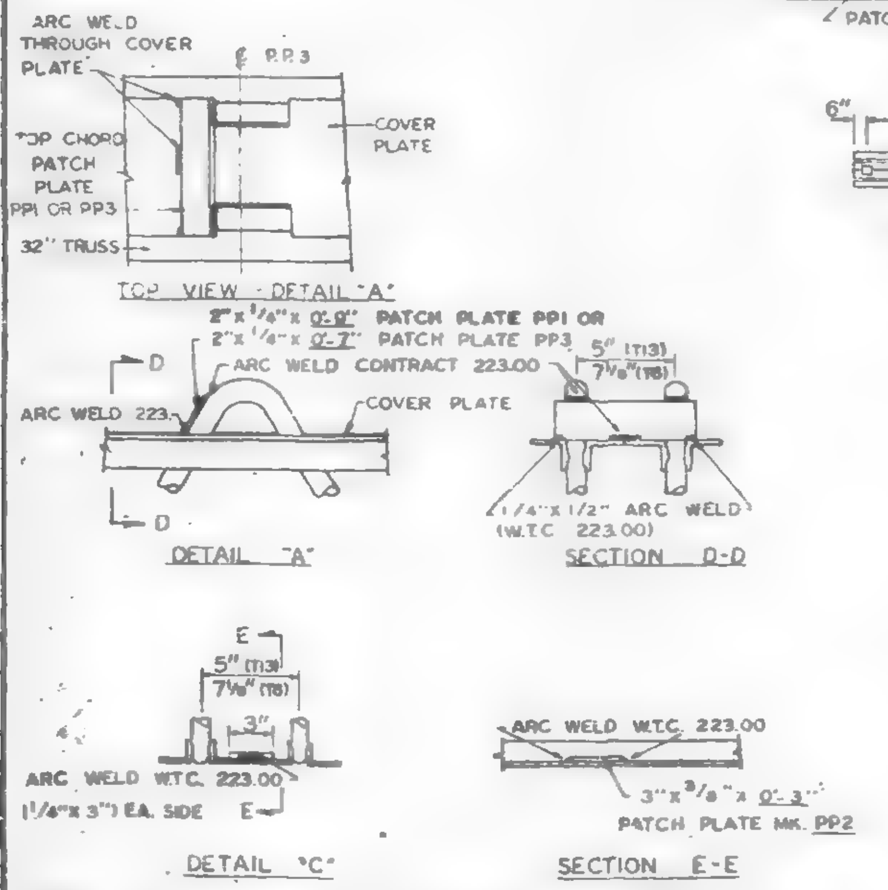
PATCH PLATE MK. PP1 TO BE USED WITH DOUBLE C32T6.
PATCH PLATE MK. PP3 TO BE USED WITH DOUBLE C32T13.

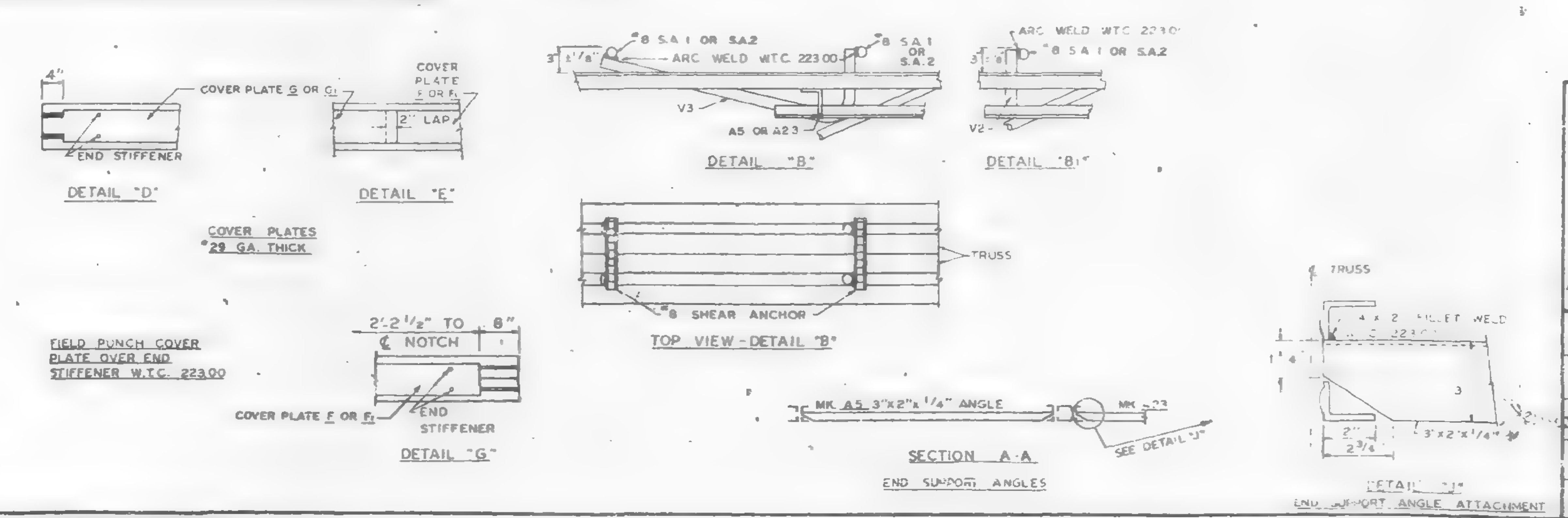


COVER PLATES MK. F1 & G1 TO BE USED WITH DOUBLE C32T13.
COVER PLATES MK. F & G TO BE USED WITH DOUBLE C32T6.
SHEAR ANCHOR MK. SA1 TO BE USED WITH DOUBLE C32T13.
SHEAR ANCHOR MK. SA2 TO BE USED WITH DOUBLE C32T6.

NO	DATE	REVISION	BY
3	6-3-69	AS NOTED	GDC
2	4-8-69	AS NOTED	GDC
1	2-21-69	AS NOTED	GDC

REF.	
AB4-3 & 3	
7-AB4-5 & 6	5 6 8
7-AB4-39 4	3-68
SA-124	
7-AB3-2	68
7-AB1-11 & 12	5-10-68
7-AB2-6	5 68
AB4-42	4 -68



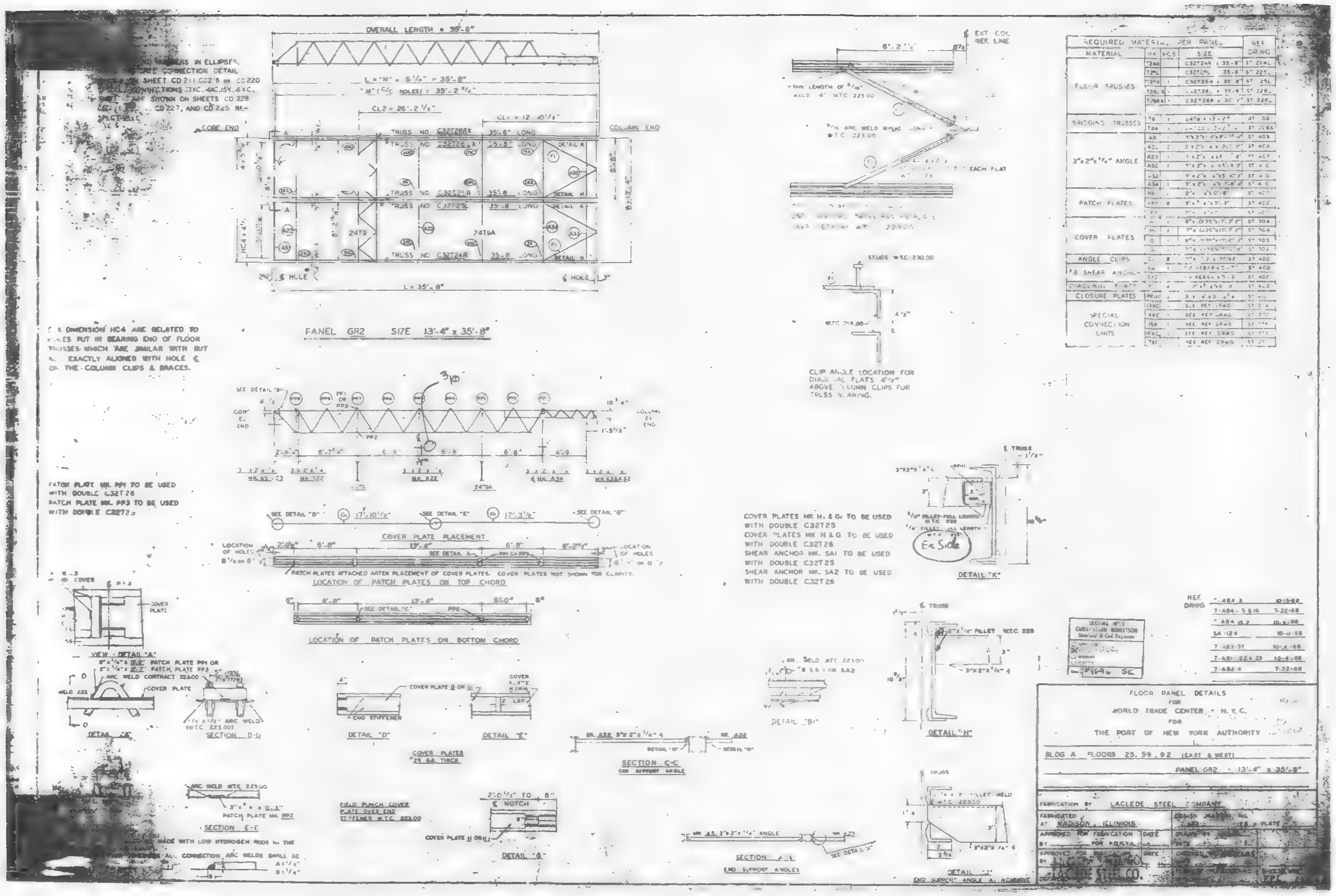


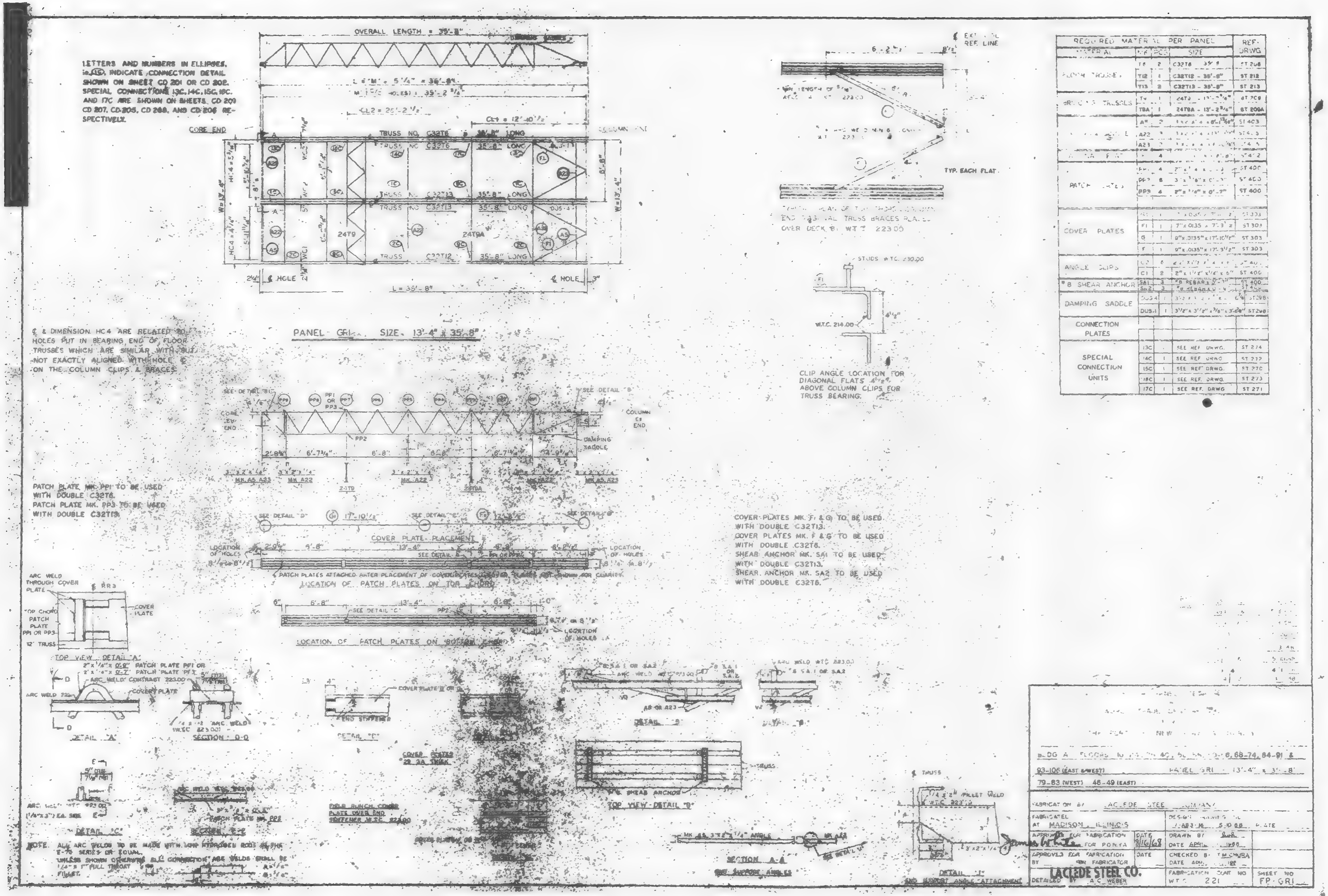
NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
A = 1/4"
B = 1/4"

PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

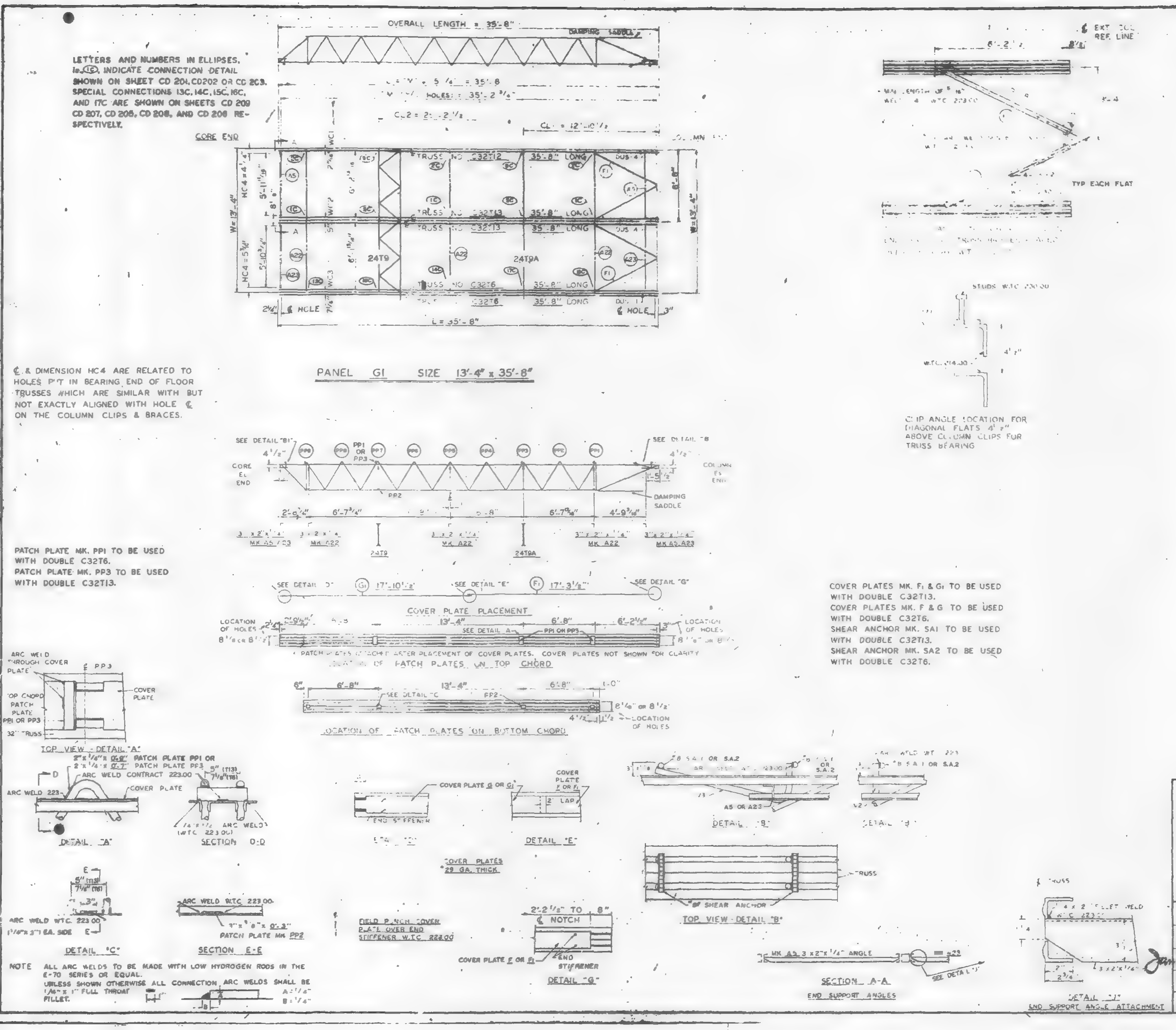
BLDG A FLOORS 40, 50-58, 60-66, 68-74, 84-91 & 93-106 (E & W) 45-49 (W) 80-83 (E) PANEL G1 - 13'-4" x 35'-8"
BLDG. B FLOORS 14-24, 26-40, 50-58, 60-74, 84-91, 93-106 (N & S) 80-83 (N) 45-49 (S)

FABRICATED BY ... STEEL COMPANY
FABR. DATE
APPROVED ... DATE 6/12/69
APPROVED ... FOR FABRICATOR
DETAILED BY ... WEBER
DESIGN DRAWING NO. 7-AB3-17 5-10-68 PLATE
DRAWN BY DATE APRIL 10, 1968
CHECKED BY T.M. CHURA DATE APRIL 10, 1968
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-G1


OVERALL LENGTH = 35'-8"
CORE END
COLUMN END
PANEL GR2 SIZE 13'-4" x 35'-8"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATE MK. PP1 TO BE USED WITH DOUBLE C32T26
PATCH PLATE MK. PP3 TO BE USED WITH DOUBLE C32T26
COVER PLATES MK. H, & G TO BE USED WITH DOUBLE C32T25
COVER PLATES MK H & G TO BE USED WITH DOUBLE C32T26
SHEAR ANCHOR MK. SA1 TO BE USED WITH DOUBLE C32T25
SHEAR ANCHOR MK. SA2 TO BE USED WITH DOUBLE C32T26
CLIP ANGLE LOCATION FOR DIAGONAL FLATS ABOVE COLUMN CLIPS FOR TRUSS BEARING
REQUIRED MATERIAL PER PANEL
MATERIAL
SIZE
REF DRWG
FLOOR TRUSSES
BRIDGING TRUSSES
3"x2"x1/4" ANGLE
PATCH PLATES
COVER PLATES
ANGLE CLIPS
#8 SHEAR ANCHOR
CLOSURE PLATES
SPECIAL CONNECTION UNITS
VIEW - DETAIL "A"
DETAIL "C"
SECTION D-D
DETAIL "D"
DETAIL "E"
SECTION C-C
DETAIL "B"
DETAIL "H"
DETAIL "K"
SECTION E-E
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N. Y. C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG A FLOORS 25, 59, 92 (EAST & WEST)
PANEL GR2 - 13'-4" x 35'-8"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION
FOR P.O.N.Y.A.
LACLEDE STEEL CO.



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T6	2	C32T6 35'-8"	ST 206
	T12	1	C32T12 - 35'-8"	ST 212
	T13	2	C32T13 - 35'-8"	ST 213
BRIDGING TRUSSES	T9	1	24T9 - 13'-2¾"	ST 209
	T9A	1	24T9A - 13'-2¾"	ST 209A
[illegible]	A5	2	[illegible]	ST 403
	A22	3	[illegible]	ST 4[illegible]5
	A23	2	[illegible]	ST 4[illegible]5
[illegible]	[illegible]	4	[illegible]	ST 4[illegible]2
PATCH PLATES	PP1	4	[illegible]	ST 400
	PP2	8	[illegible]	ST 400
	PP3	4	2" x ¼" x 0'-7"	ST 400
COVER PLATES	[illegible]	1	[illegible]	ST 303
	F1	1	7" x .0135 x 7'-3½"	ST 303
	G	1	9" x .0135" x 17'-10½"	ST 303
	F	1	9" x .0135" x 17'-3½"	ST 303
ANGLE CLIPS	C2	6	[illegible]	ST 400
	C1	2	2" x 1½" x ¼" x 6"	ST 400
#8 SHEAR ANCHOR	SA1	3	#8 REBAR x [illegible]	ST 400
	SA2	3	#8 REBAR x [illegible]	ST 400
DAMPING SADDLE	DUS-4	1	[illegible]	ST 298
	DUS-1	1	3½" x 3½" x ⅜" x 3'-6⅞"	ST 298
CONNECTION PLATES				
SPECIAL CONNECTION UNITS	13C	1	SEE REF. DRWG.	ST 274
	14C	1	SEE REF. DRWG.	ST 272
	15C	1	SEE REF. DRWG.	ST 270
	16C	1	SEE REF. DRWG.	ST 273
	17C	1	SEE REF. DRWG	ST 271



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T6	2	C32T6 - 35'-8"	ST 806
	T12	1	C32T12 - 35'-8"	ST 818
	T13	2	C32T13 - 35'-8"	ST 818
BRIDGING TRUSSES	T9	1	24T9 - 13'-2 3/4"	ST 808
	T9A	1	24T9A - 13'-2 3/4"	ST 808A
[illegible]	A5	2	3"x2"x1/4"x8'-1"	ST 403
	A22	3	3"x2"x1/4"x13'-3"	ST 403
	A23	2	3"x2"x1/4"x8'-1"	ST 403
DIAGONAL FLATS	F	4	[illegible] x 8'-8"	ST 412
PATCH PLATES	PP1	4	2" x 1/4" x 0'-8"	ST 400
	PP2	8	3" x 3/8" x 0'-3"	ST 400
	PP3	4	2" x 1/4" x 0'-7"	ST 400
COVER PLATES	G1	1	7" x .0135" x 17'-10 1/2"	ST 303
	F1	1	7" x .0135" x 17'-3 1/2"	ST 303
	G	1	9" x .0135" x 17'-10 1/2"	ST 303
	F	1	9" x .0135" x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	8	2 1/2" x 1 1/2" x 1/4" x 8"	ST 400
	C1	2	2" x 1 1/2" x 1/4" x 8"	ST 400
#8 SHEAR ANCHOR	SA1	3	#8 REBAR x 0'-7"	ST 400
	SA2	3	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-4	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION PLATES				
SPECIAL CONNECTION UNITS	13C	1	SEE REF. DRWG.	ST 274
	14C	1	SEE REF. DRWG.	ST 272
	15C	1	SEE REF. DRWG.	ST 270
	16C	1	SEE REF. DRWG.	ST 273
	17C	1	SEE REF. DRWG.	ST 271

REF DWGS

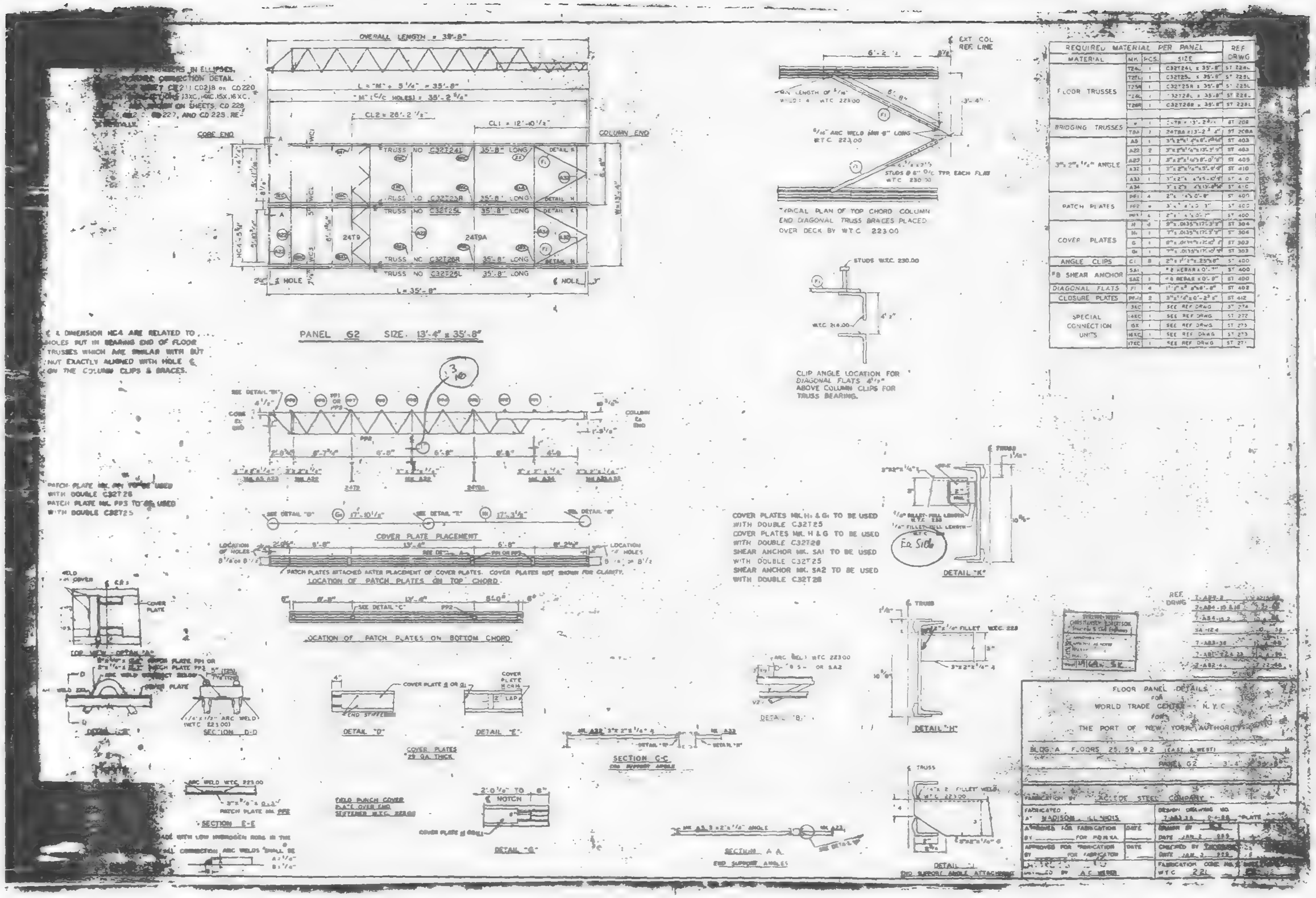
[illegible]	3-5-68
[illegible]	5-6-68
[illegible]	1-3-68
[illegible]	10-20-67
[illegible]	1-3-68
[illegible]	5-10-68
[illegible]	2-15-68
[illegible]	4-1-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

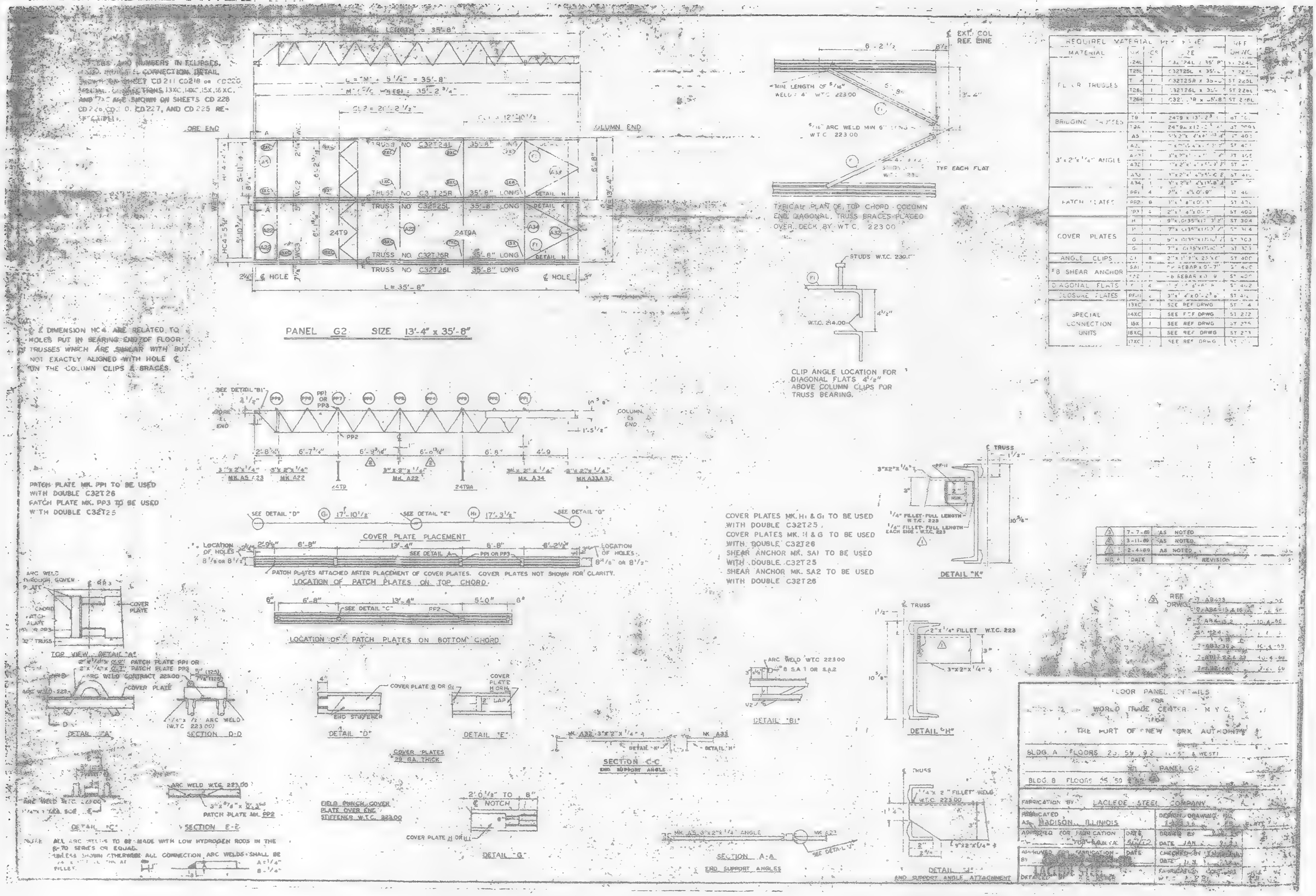
BLDG. A FLOORS 10-24, 26-40, 50-58, 60-66, 68-74, 84-91 & 93-106 (EAST & WEST) PANEL G1 - 13'-4" x 35'-8"
45-49 (WEST) 80-83 (EAST)

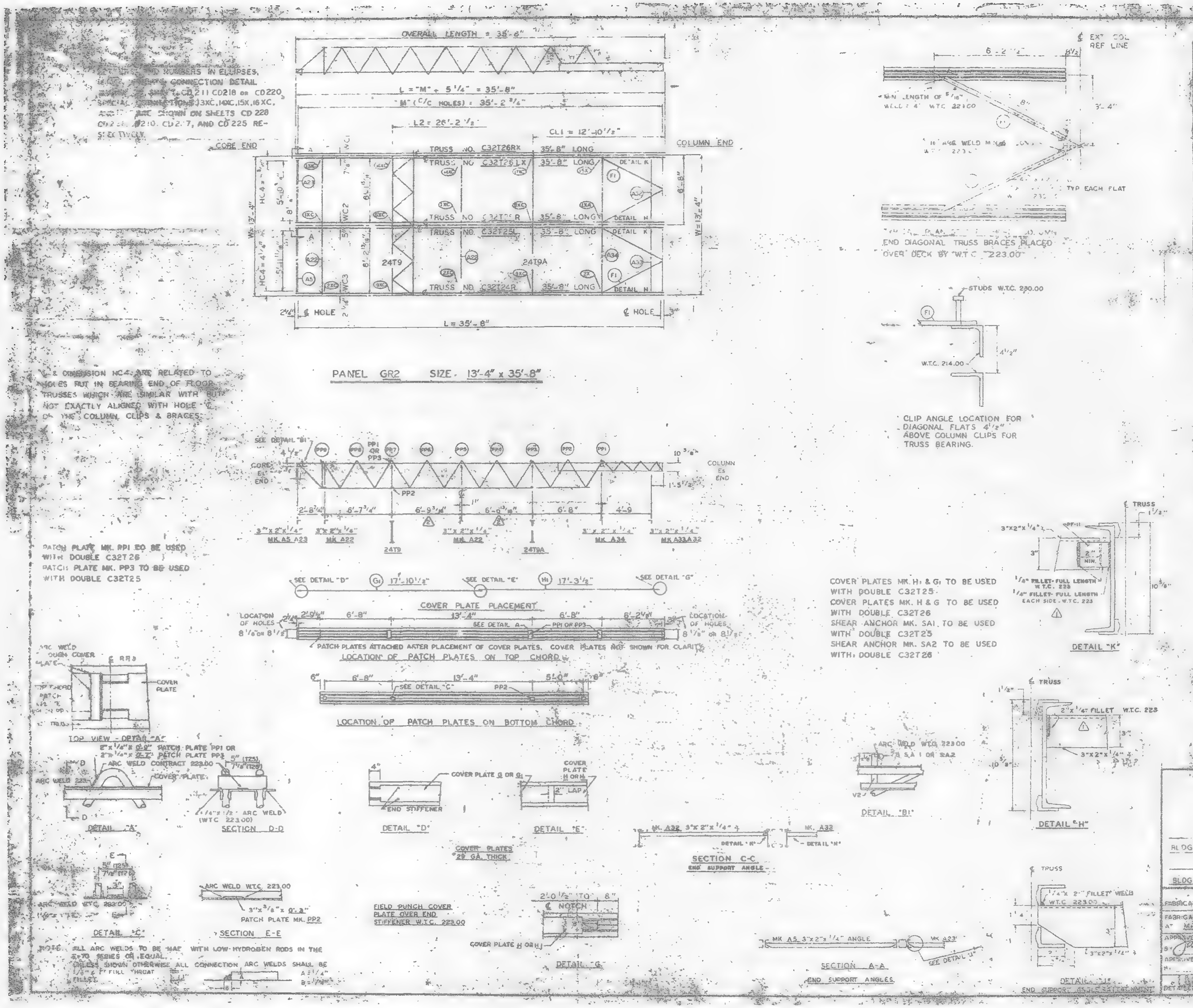
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-1? 5-10-68 PLATE	
APPROVED FOR FABRICATION FOR P.O.N.Y.A.	DATE 8/19/68	DRAWN BY [illegible] DATE APRIL 10, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 10, 1968	
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO. FP-G1



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T24L	1	C32T24L x 35'-8"	ST 224L
	T25L	1	C32T25L x 35'-8"	ST 225L
	T25R	1	C32T25R x 35'-8"	ST 225L
	T28L	1	C32T28L x 35'-8"	ST 228L
	T28R	1	C32T28R x 35'-8"	ST 228L
BRIDGING TRUSSES	[illegible]	1	24T9 x 13'-2 [illegible]	ST 208
	T9A	1	24T9A x 13'-2 [illegible]	ST 208A
3" x 2" x 1/4" ANGLE	A5	1	[illegible]	ST 403
	A22	2	[illegible]	ST 403
	A29	1	[illegible]	ST 405
	A32	1	[illegible]	ST 410
	A33	1	[illegible]	ST 4[illegible]0
	A34		[illegible]	ST 41C
PATCH PLATES	PP1	4	[illegible]	ST 400
	PP2	[illegible]	[illegible]	ST 400
	PP3	6	[illegible]	ST 400
COVER PLATES	H	4	[illegible]	ST 304
	H1	1	[illegible]	ST 304
	G	1	[illegible]	ST 303
	G1	1	[illegible]	ST 303
ANGLE CLIPS	C1	8	[illegible]	ST 400
#8 SHEAR ANCHOR	SA1		#8 REBAR x 0'-7"	ST 400
	SA2	1	#8 REBAR x 0'-[illegible]"	ST 400
DIAGONAL FLATS	F1	4	[illegible]	ST 402
CLOSURE PLATES	[illegible]	2	[illegible]	ST 412
SPECIAL CONNECTION UNITS	3XC	1	SEE REF DRWG	ST 274
	14XC	1	SEE REF DRWG	ST 272
	15X	1	SEE REF DRWG	ST 275
	16XC	1	SEE REF DRWG	ST 273
	17XC	1	SEE REF DRWG	ST 27[illegible]


PANEL G2 SIZE 13'-4" x 35'-8"
L = 35'-8"
CORE END
COLUMN END
TRUSS NO. C32T24L 35'-8" LONG
TRUSS NO. C32T25R 35'-8" LONG
TRUSS NO. C32T25L 35'-8" LONG
TRUSS NO. C32T26L 35'-8" LONG
℄ HOLE
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SHEAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
TYPICAL PLAN OF TOP CHORD - COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
PATCH PLATE MK. PP1 TO BE USED WITH DOUBLE C32T26
PATCH PLATE MK. PP3 TO BE USED WITH DOUBLE C32T25
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON BOTTOM CHORD
COVER PLATES MK. H1 & G1 TO BE USED WITH DOUBLE C32T25
COVER PLATES MK. H & G TO BE USED WITH DOUBLE C32T26
SHEAR ANCHOR MK. SA1 TO BE USED WITH DOUBLE C32T25
SHEAR ANCHOR MK. SA2 TO BE USED WITH DOUBLE C32T26
REQUIRED MATERIAL PER PANEL
FLOOR TRUSSES
BRIDGING TRUSSES
3"x2"x1/4" ANGLE
PATCH PLATES
COVER PLATES
ANGLE CLIPS
#8 SHEAR ANCHOR
DIAGONAL FLATS
CLOSURE PLATES
SPECIAL CONNECTION UNITS
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
SECTION C-C
DETAIL "B1"
DETAIL "H"
DETAIL "K"
DETAIL "C"
SECTION E-E
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
FLOOR PANEL DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 25, 59, 92 (EAST & WEST)
PANEL G2
BLDG. B FLOORS 25, 59
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T24R	1	C32T24R x 35'-8"	ST 224L
	T25L	1	C32T25L x 35'-8"	[illegible]
	T25R	1	[illegible]	[illegible]
	T26LX	1	C32T26LX x 35'-8"	ST 224
	T26RX	1	C32T26RX x 35'-[illegible]	ST 224L
BRIDGING TRUSSES	T9	1	24T9 x [illegible]	[illegible]
	T9A	1	24T9A x [illegible]	[illegible]
[illegible]	A5	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	A22	[illegible]	[illegible]	[illegible]
	A23	1	[illegible]	[illegible]
	A33	[illegible]	[illegible]	[illegible]
	A34	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	1	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
	PP3	[illegible]	[illegible]	[illegible]
COVER PLATES	H	1	9"x.0135"x17'-3 1/2"	ST 304
	H1	1	7"x.0135"x17'-3 1/2"	ST 304
	G	1	9"x.0135"x17'-10 1/2"	ST 303
	G1	1	7"x.0135"x17'-10 1/2"	ST 303
ANGLE CLIPS	C1	8	2"x[illegible]x6"	ST 400
#8 SHEAR ANCHOR	SA	1	#8 REBAR x 0'-7"	ST 400
	SA2	1	#8 REBAR x 0'-9"	ST 400
DIAGONAL FLATS	F1	4	1 1/2"x3/8"x6'-8"	ST 402
CLOSURE PLATES	[illegible]	2	[illegible]	ST 412
SPECIAL CONNECTION UNITS	13XC	1	SEE REF DRWG.	ST [illegible]
	14XC	1	SEE REF DRWG.	ST [illegible]
	15X	1	SEE REF DRWG.	ST 275
	16XC	1	SEE REF DRWG.	ST 2[illegible]
	17XC	1	SEE REF DRWG.	ST [illegible]

NO.	DATE	REVISION	BY
3	7-7-69	AS NOTED	G.D.C.
2	3-11-69	AS NOTED	G.D.C.
1	2-4-69	AS NOTED	G.D.C.

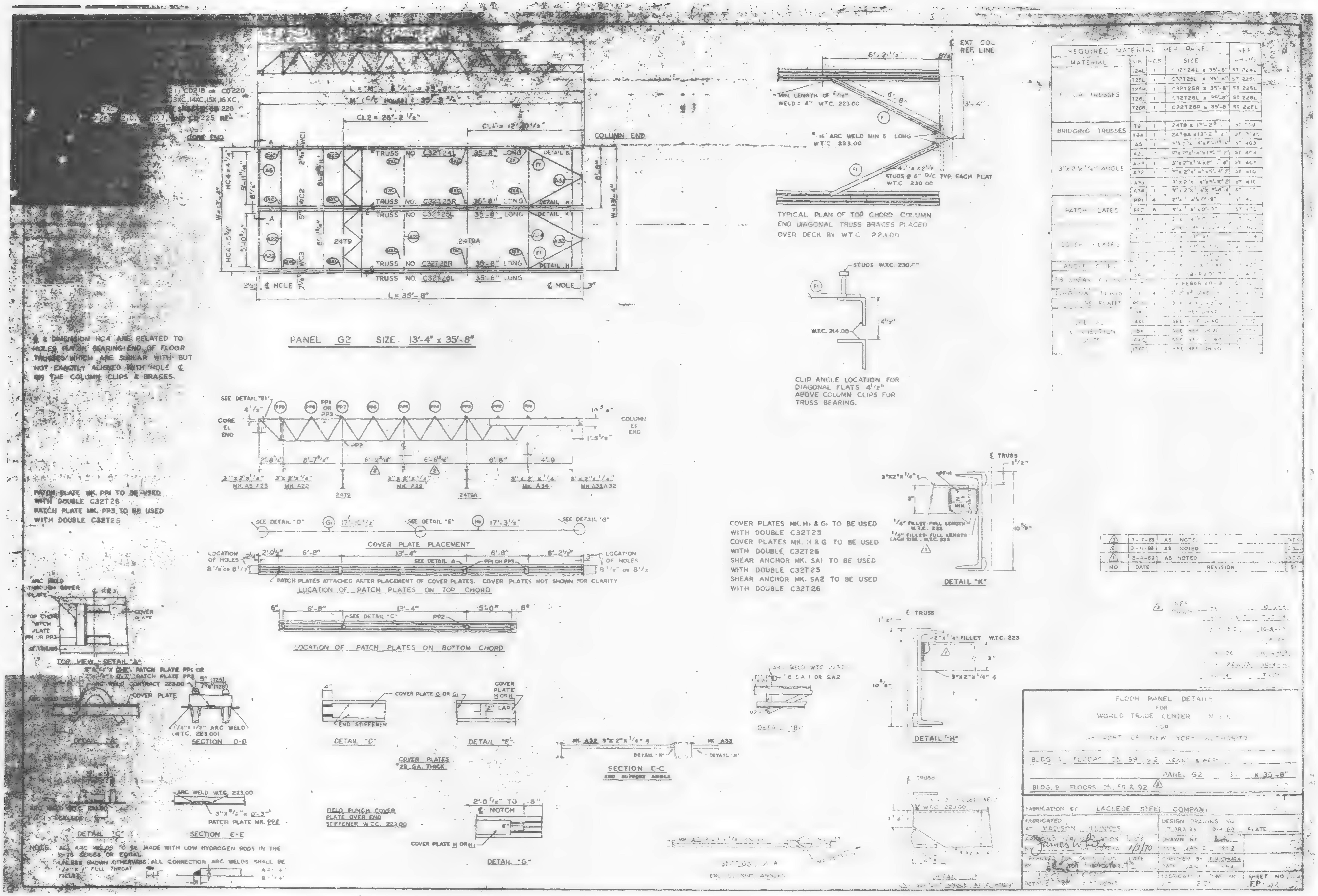
REF DRWG

A84-[illegible]	10-15-68
7-A84-15 & 16	7-22-68
7-A84-15.2	10-4-68
SA-124	[illegible]-5-69
7-A83-37	10-4-68
7-A81-22 & 23	10-4-68
7-A82-4	7-22-68

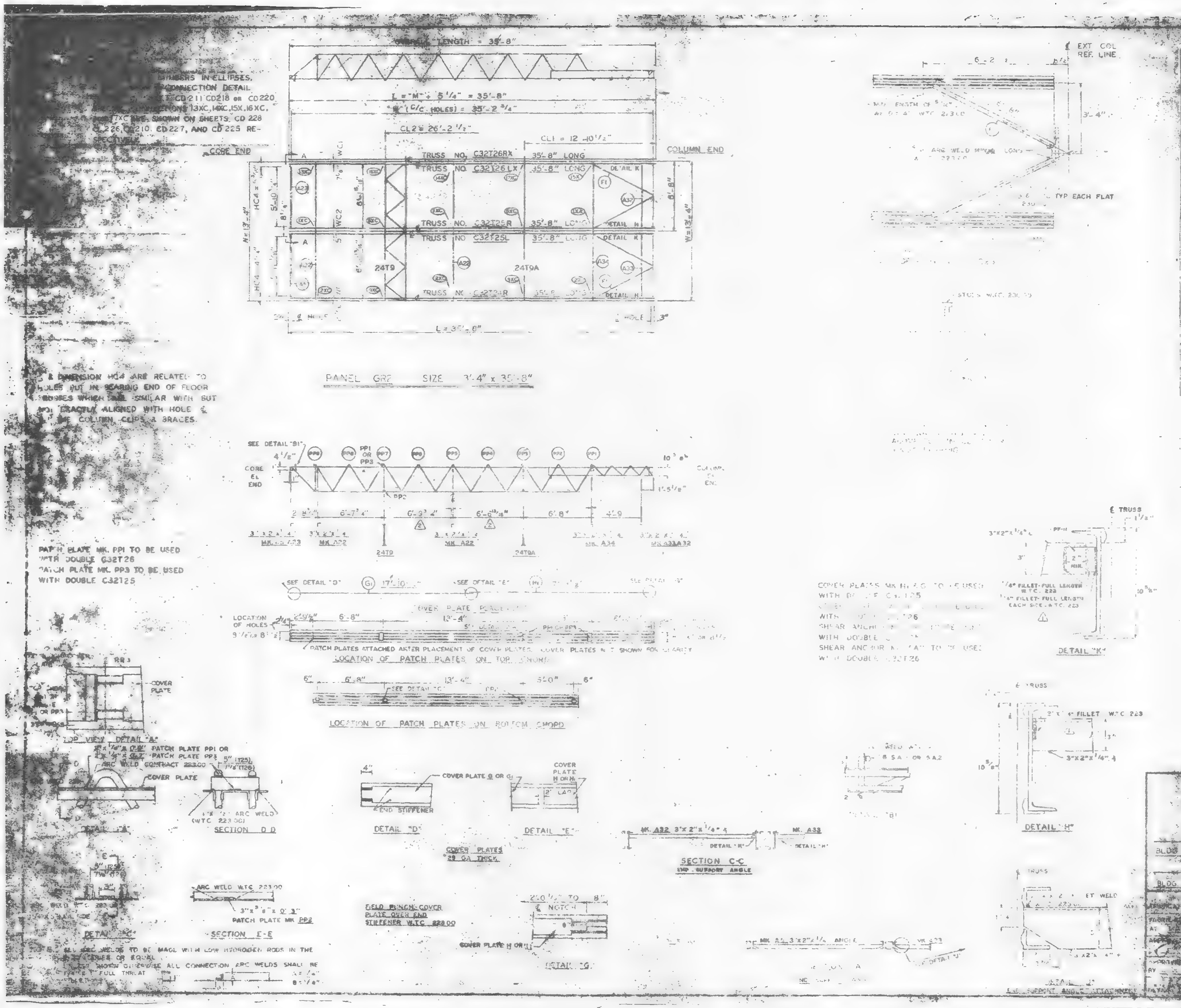
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 25, 59, 92 (EAST & WEST)
PANEL GR2 [illegible] x 35'-8"
BLDG B FLOORS 25, 59 & 92 (NORTH & SOUTH)

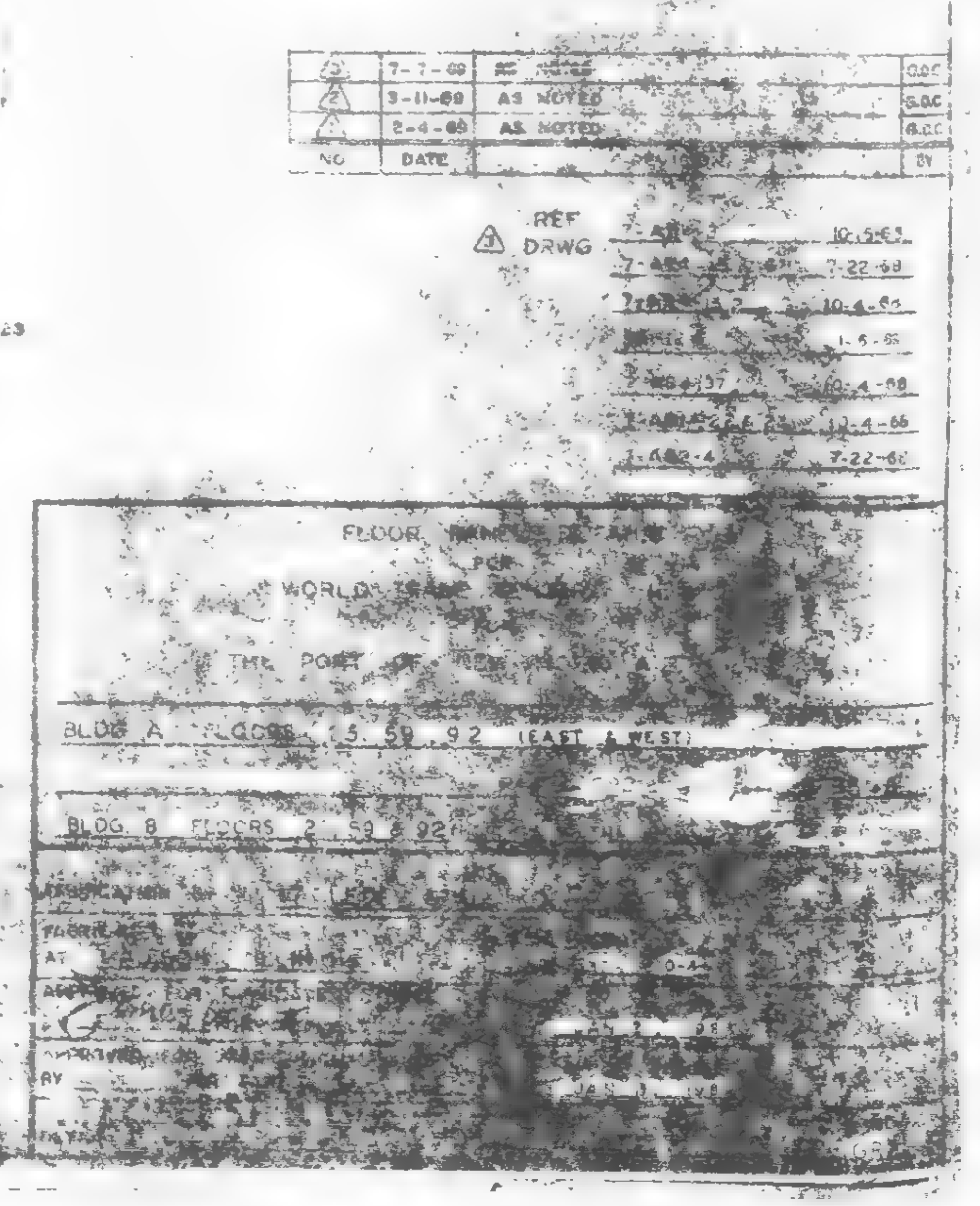
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-37 10-4-68 PLATE
APPROVED FOR FABRICATION BY James [illegible] P.N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE JAN 2, 1969
APPROVED FOR FABRICATION BY STEEL FABRICATOR DATE
CHECKED BY T.M. CHURA DATE JAN 3, 1969
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-GR2

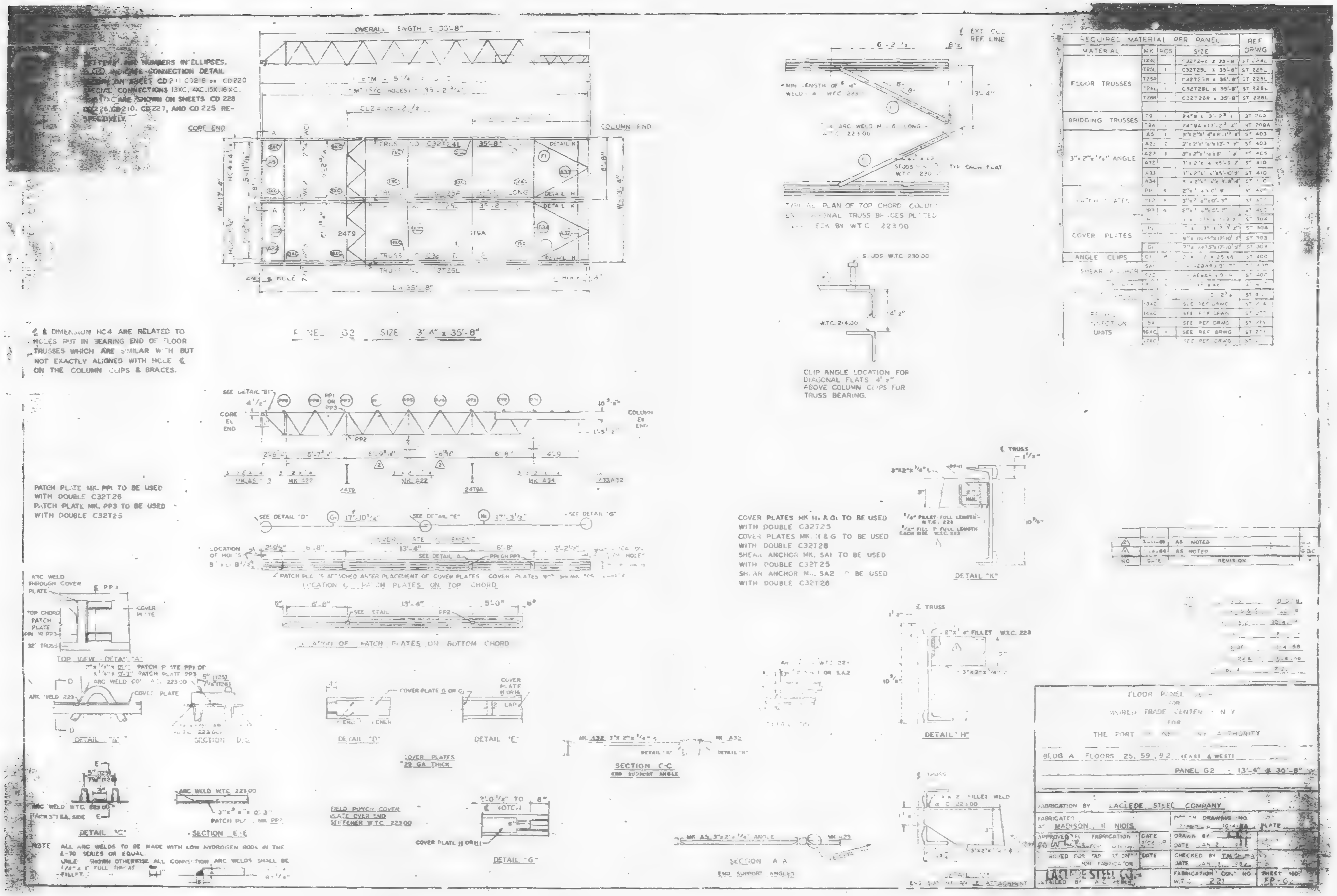


PANEL G2 SIZE 13'-4" x 35'-8"
TRUSS NO. C32T24L 35'-8" LONG
TRUSS NO. C32T25R 35'-8" LONG
TRUSS NO. C32T25L 35'-8" LONG
TRUSS NO. C32T26R 35'-8" LONG
TRUSS NO. C32T26L 35'-8" LONG
CORE END
COLUMN END
L = 35'-8"
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATE MK. PP1 TO BE USED WITH DOUBLE C32T26
PATCH PLATE MK. PP3 TO BE USED WITH DOUBLE C32T25
COVER PLATES MK. H1 & G1 TO BE USED WITH DOUBLE C32T25
COVER PLATES MK. H & G TO BE USED WITH DOUBLE C32T26
SHEAR ANCHOR MK. SA1 TO BE USED WITH DOUBLE C32T25
SHEAR ANCHOR MK. SA2 TO BE USED WITH DOUBLE C32T26
DETAIL "K"
DETAIL "H"
DETAIL "D"
DETAIL "E"
DETAIL "G"
SECTION D-D
SECTION E-E
SECTION C-C
COVER PLATES 20 GA. THICK
FIELD PUNCH COVER PLATE OVER END STIFFENER W.T.C. 223.00
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
REQUIRED MATERIAL PER PANEL
FLOOR TRUSSES
BRIDGING TRUSSES
3"x2"x1/4" ANGLE
PATCH PLATES
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. B FLOORS 25, 59 & 92
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
CHECKED BY T.M. CHURA
SHEET NO. FP-G2

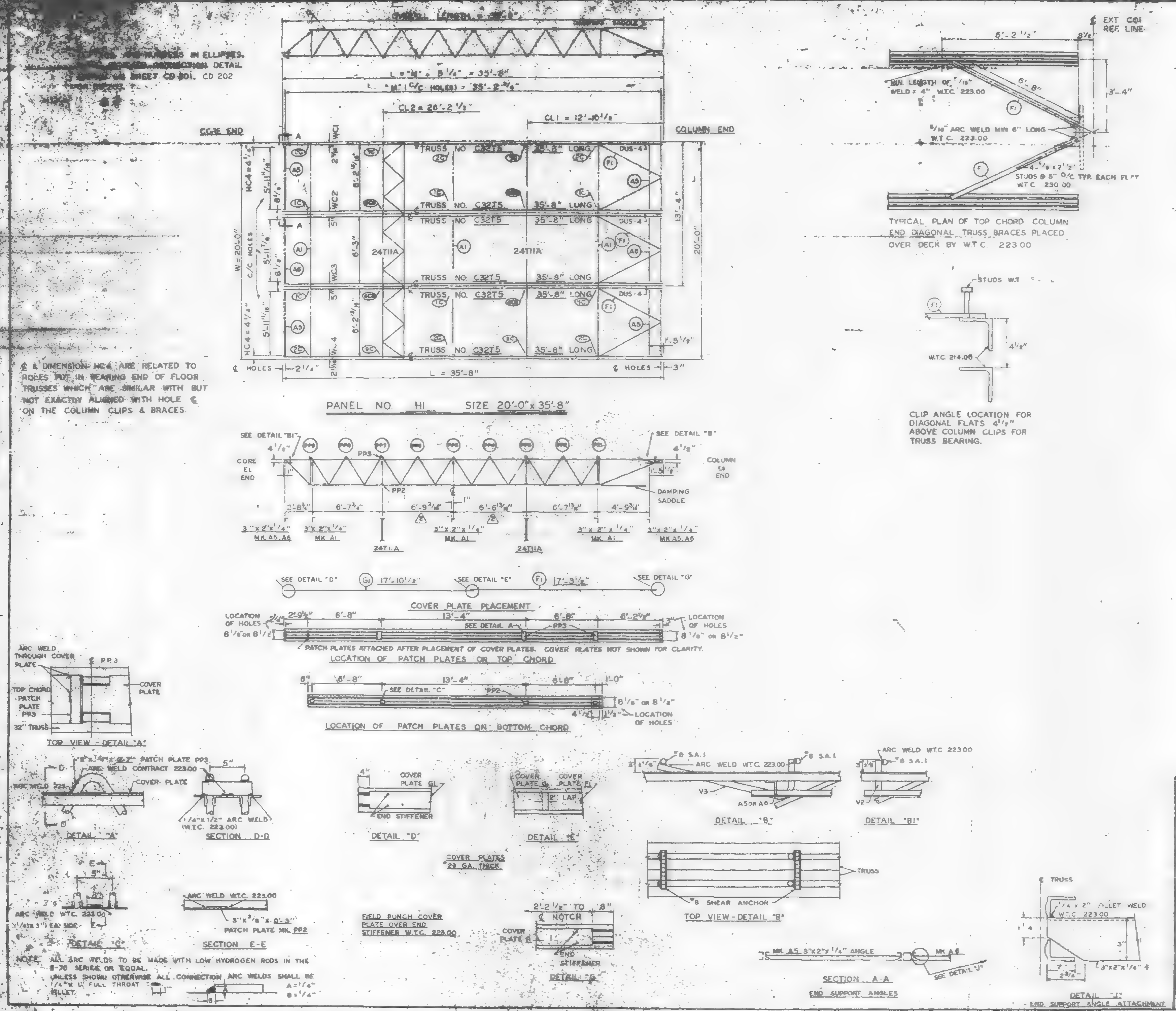


REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS.	SIZE	
FLOOR TRUSSES	T24R	1	C32T24R x 35'-8"	ST 224L
	T25L	1	C32T25L x 35'-8"	ST 225L
	T25R	1	C32T25R x 35'-8"	ST 225L
	T26LX	1	C32T26LX x 35'-8"	ST 226L
	T26RX	1	C32T26RX x 35'-8"	ST 226L
BRIDGING TRUSSES	T9	1	24T9 x 13'-2 3/4"	ST 209
	T9A	1	24T9A x 13'-2 3/4"	ST 209A
3"x2"x1/4" ANGLE	A5	1	3"x2"x1/4"x8'-1 13/16"	ST 403
	A22	2	3"x2"x1/4"x1[illegible]	ST 403
	A23	1	3"x2"x1/4"x6'-[illegible]	ST 405
	A32	1	3"x2"x1/4"x5'-9 1/4"	ST 410
	A33	1	3"x2"x1/4"x5'-10 1/2"	ST 410
	A34	1	3"x2"x1/4"x13'-8 3/16"	ST 410
PATCH PLATES	PP1	4	2"x1/4"x0'-8"	ST 400
	PP2	8	3"x3/8"x0'-3"	ST 400
	PP3	4	2"x1/4"x0'-[illegible]	ST 400
COVER PLATES	H	1	9"x.0135"x17'-3 1/2"	ST 304
	H1	1	7"x.0135"x17'-3 1/2"	[illegible] 304
	G	1	9"x.0135"x17'-10 1/2"	ST 303
	G1	1	7"x.0135"x17'-10 1/2"	ST 303
ANGLE CLIPS	C1	8	2"x1 1/2"x.25"x6"	ST 400
#8 SHEAR ANCHOR	SA1	1	#6 REBAR x 0'-7"	ST 400
	SA2		#5 REBAR x 0'-8"	ST 400
[illegible] FLATS	[illegible]	4	[illegible] x6'-8"	ST 402
[illegible] PLATES	[illegible]		3"x1/4"x0'-2[illegible]	ST [illegible]
[illegible] CONNECTION UNITS	13XC	1	SEE REF. DRWG.	ST 274
	14XC	1	SEE REF. DRWG.	ST 272
	15X	1	SEE REF. DRWG.	ST 275
	16XC	1	SEE REF. DRWG.	ST 273
	17XC	1	SEE REF. DRWG.	ST 271





OVERALL LENGTH = 35'-8"
CORE END
COLUMN END
PANEL G2 SIZE 13'-4" x 35'-8"
L = 35'-8"
REQUIRED MATERIAL PER PANEL
FLOOR TRUSSES
BRIDGING TRUSSES
3"x2"x1/4" ANGLE
COVER PLATES
ANGLE CLIPS
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4'-7" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
PATCH PLATE MK. PP1 TO BE USED WITH DOUBLE C32T26
PATCH PLATE MK. PP3 TO BE USED WITH DOUBLE C32T25
COVER PLATES MK. H1 & G1 TO BE USED WITH DOUBLE C32T25
COVER PLATES MK. H & G TO BE USED WITH DOUBLE C32T26
SHEAR ANCHOR MK. SA1 TO BE USED WITH DOUBLE C32T25
SHEAR ANCHOR MK. SA2 TO BE USED WITH DOUBLE C32T26
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
DETAIL "K"
DETAIL "H"
DETAIL "B"
DETAIL "C"
DETAIL "D"
DETAIL "E"
DETAIL "G"
SECTION D-D
SECTION E-E
SECTION C-C
SECTION A-A
END SUPPORT ANGLES
COVER PLATES 20 GA THICK
FIELD PUNCH COVER PLATE OVER END STIFFENER W.T.C. 223.00
NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
AS NOTED
REVISION
FLOOR PANEL
WORLD TRADE CENTER N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG A FLOORS 25, 59, 92 (EAST & WEST)
PANEL G2 13'-4" x 35'-8"
FABRICATION BY LACLEDE STEEL COMPANY
AT MADISON, ILLINOIS
LACLEDE STEEL CO.
FP-G2



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	6	C32T5 - 35'-8"	ST209
BRIDGING TRUSSES	T11A	2	2T11A - 18'-1"	ST211A
3"x 2"x 1/4" ANGLE	A1	3	3"x 2"x 1/4" x 1'-9"	ST 403
	A5	4	3"x 2"x 1/4" x 0'-4 13/16"	ST 403
	A6	2	3"x 2"x 1/4" x 0'-2"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x [illegible] x 6'-[illegible]	ST 402
PATCH PLATES	PP3	12	2" x 1/4" x 0'-7	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	G1	3	7" x .0135" x 17'-10 1/2"	ST 303
	F1	3	7" x .0135" x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	12	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
#8 SHEAR ANCHOR	SA1	9	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS-4	3	3 1/2 x 3 1/2 x 3/8 x 5 6 7/8	ST299
CONNECTION BAR	CB1	2	1" ∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x 39" x 0'-9"	ST 400
	P7	2	6 1/2" x 1/2" x 1'-0"	ST 401

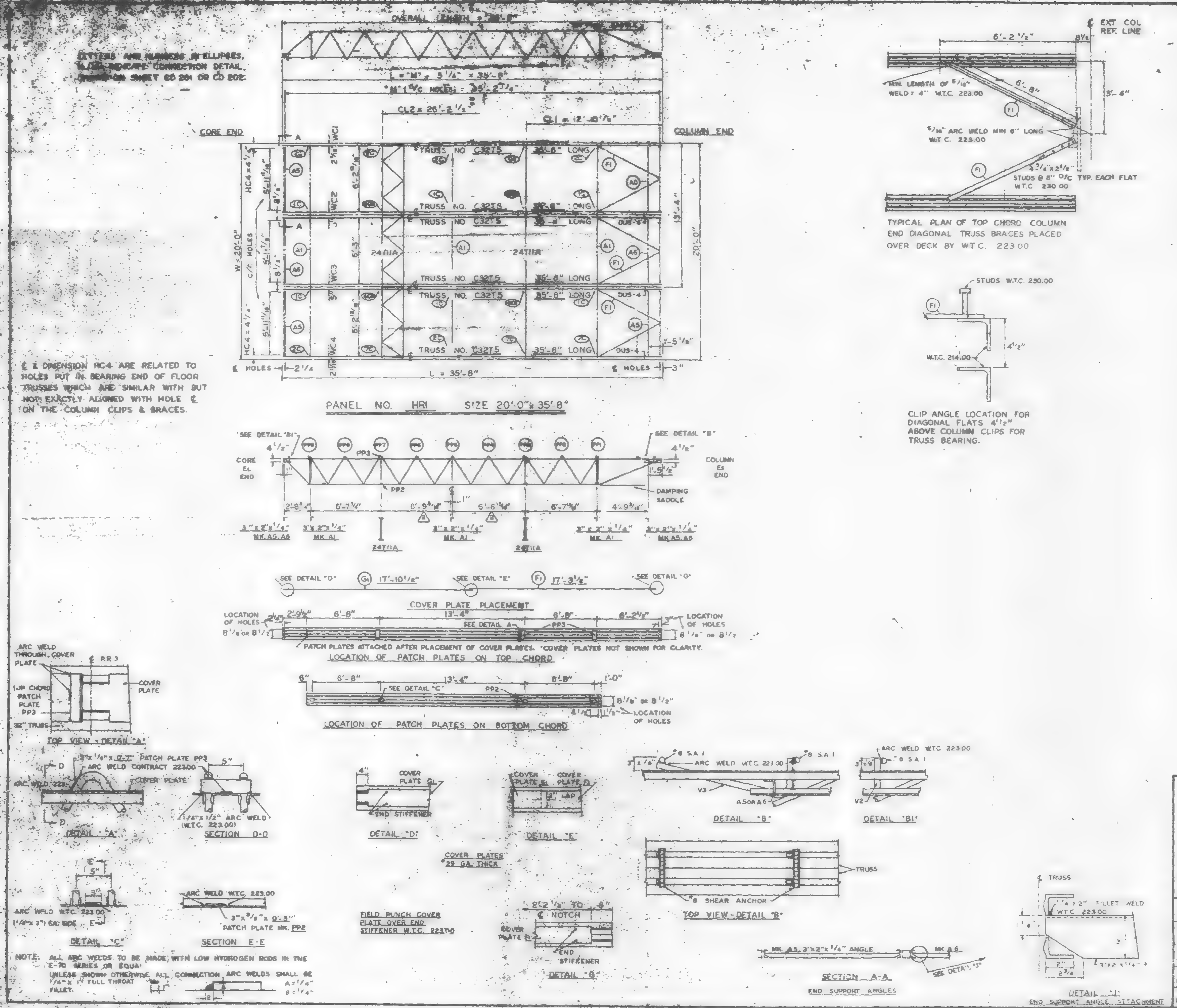
NO.	DATE	REVISION	BY
3	6-23-68	AS NOTED	G.D.C.
2	2-21-69	AS NOTED	G.D.C.
1	10-16-68	MATERIAL LIST	G.D.C.

REF DRWG	
7-AB4-3.1	1-3-68
7-AB4-15 & 16	7-22-68
7-AB4-39-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-11 & 12	7-22-68
7-AB2-6	7-22-68
7-AB4-42 & 3	3-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-24, 26-40, 50-58, 60-66 68 74, 84-91 & 93-106 (E & W) 45-49 (W) 80-83 (E) PANEL H1 20'-0" x 35'-8"
BLDG. B FLOORS 14-24, 26-40, 50-58, 60-74, 84-91, 93-106 (N & S) 45-49 (S) 80-83 (N)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-17 PLATE
APPROVED FOR FABRICATION BY James White FOR PONYA — DATE 1/2/70
DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. FOR FABRICATOR — DATE
CHECKED BY T.M. CHURA DATE APRIL 10, 1968
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-H1



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T5	6	C32T 35'-8"	ST295
BRIDGING TRUSSES	T11A	2	2T11A - 19'-11"	ST211A
3"x2"x1/4" ANGLE	A1	3	3"x 2"x 1/4"x 19'-11"	ST 403
	A5	4	3"x 2"x 1/4"x 6'-4 11/16"	ST 403
	A6	2	3"x 2" 1/4"x 6'-2"	ST 403
DIAGONAL FLATS	1	6	1" x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP3	12	2"x 1/4" x 0'-7"	ST 400
	PP2	12	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	G1	3	7"x 0135" x 17'-0 1/2"	ST 303
	F1	3	7"x 0135"x 7'-3 1/2"	ST 303
ANGLE CLIPS	2	13	2 1/2" x 1 1/2"x 1/4" x 6"	ST 400
# 8 SHEAR ANCHOR	SA1	9	# 8 REBAR x 0'-7	ST 400
DAMPING SADDLE	DUS-4	3	3 1/2 x 3 1/2 x 3/8" x 3 6 7/8"	ST296
CONNECTION BAR	CB1	2	1" ⌀ x [illegible]-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .39" x 0'-9"	ST 400
⚠	P7	2	6 1/2" x 1/2" x 1'-0"	ST 401

NO	DATE	REVISION	BY
3	6-23-69	AS NOTED	G.D.C.
2	2-21-69	AS NOTED	G.D.C.
1	10-16-68	LIST OF MATERIAL	G.D.C.

REF. DRWG

7-AB4-31	1-3-68
7-AB4-5 & 6	7-22-68
7-AB4-39-41	1-3-68
SA-124	1-6-69
7-A53-2	1-3-68
7-AB1-11 & 12	7-22-68
7-AB2-6	7-22-68
7-AB4-42 & 3	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-24. 26-40 (EAST & WEST) 42-49, 50 50, 60-66, 68-74 (EAST)

PANEL HR1 20'-0" x 35'-8"

BLDG. B FLOORS 14-24. 26-40 (NORTH & SOUTH) 45-[illegible] (NORTH)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-AB3-18 PLATE

APPROVED FOR FABRICATION BY James White FOR P.N.Y.A DATE 1/2/70

DRAWN BY [illegible] DATE APRIL 10, 1968

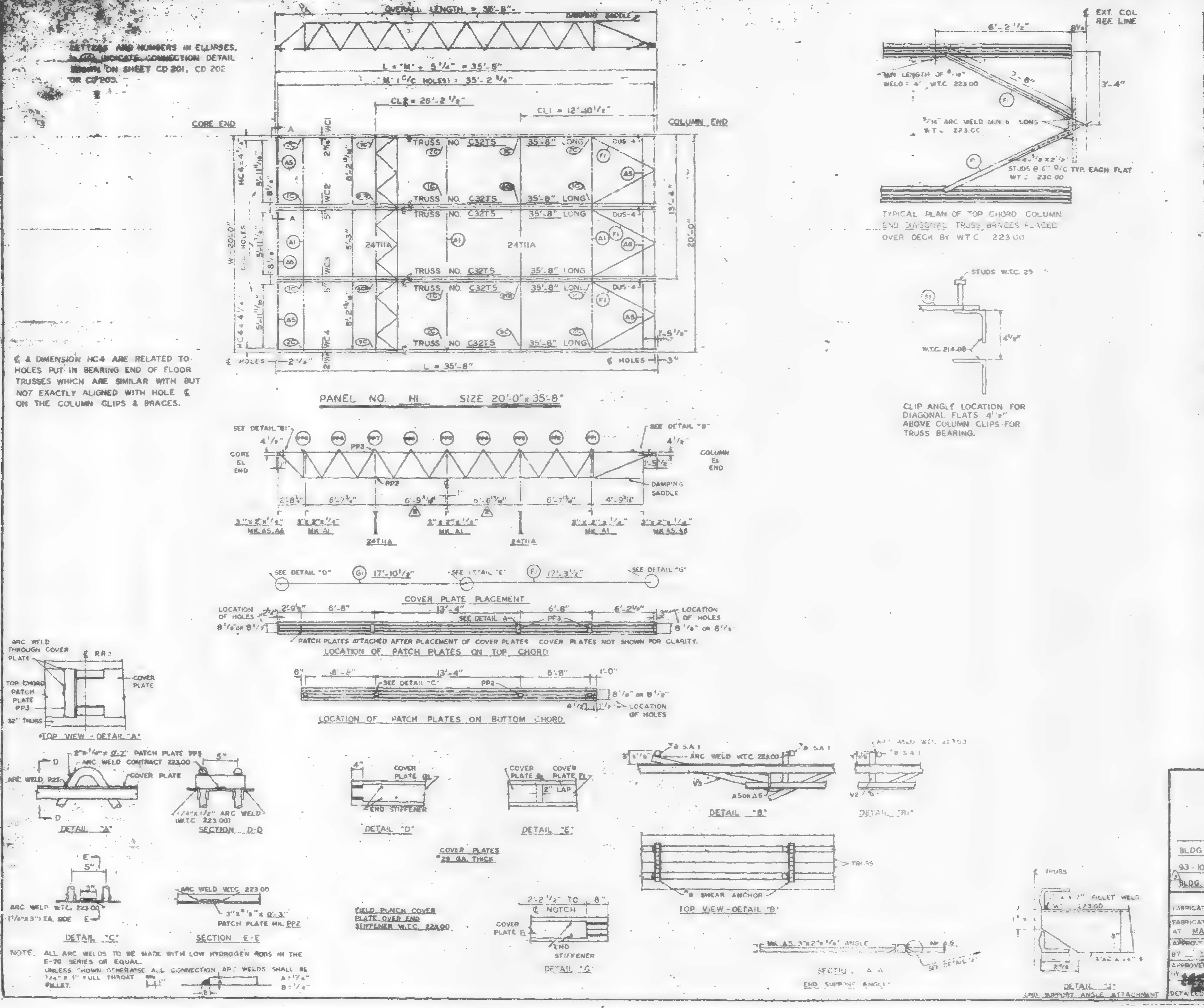
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

CHECKED BY T.M. CHURA DATE APRIL 10, 1968

DETAILED BY A. LOMBER

FABRICATION CONT NO W.T.C. 221

SHEET NO. FP-HR1



REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	16	C32T5 - 35'-8"	ST[illegible]
BRIDGING TRUSSES	T11A	2	2T11A - 19'-11"	ST[illegible]
3"x 2"x 1/4" ANGLE	A1	3	3"x2"x1/4" x 19'-11"	ST 403
	A5	4	3"x2"x1/4" x 6'-1 3/8"	ST 403
	A6	2	3"x2"x1/4" x 6'-2"	ST 403
DIAGONAL FLATS	F1	6	1'-2" x 5/16" x 6'-8"	ST 402
PATCH PLATES	PP3	12	2"x 1/4" x 0'-7"	ST 400
	PP2	12	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	G1	3	7"x .0135" x 17'-10 1/2"	ST 303
	F1	3	7"x .0135" x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	12	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
#8 SHEAR ANCHOR	SA1	9	8 REBAR x 0'-7"	ST 400
DAMPING SADDLE (1)	DUS-4	3	3 1/2" x 3 1/2" x 3/8" x 3'-6 3/4"	ST 298
CONNECTION BAR	CB1	2	1 1/4" x 1'-3"	ST 400
CONNECTION PLATES (1)	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .30" x 0'-9"	ST 400
	P7	2	6 1/2" x 1/2" x 1'-0"	ST [illegible]

NO.	DATE	REVISION	BY
3	8-23-69	AS NOTED	GDC
2	2-21-69	AS NOTED	[illegible]
1	10-18-68	MATERIAL LIST	ADO

(3) REF DRWG

7-AB4-3.1	[illegible]
7-AB4-15 & 16	7-22-68
7-AB4-39-41	7-22-68
SA-124	1-8-68
7-AB3-2	1-3-68
7-AB1-11 & 12	7-22-68
7-AB2-6	7-22-68
7-AB4-46 [illegible]	9-15-68

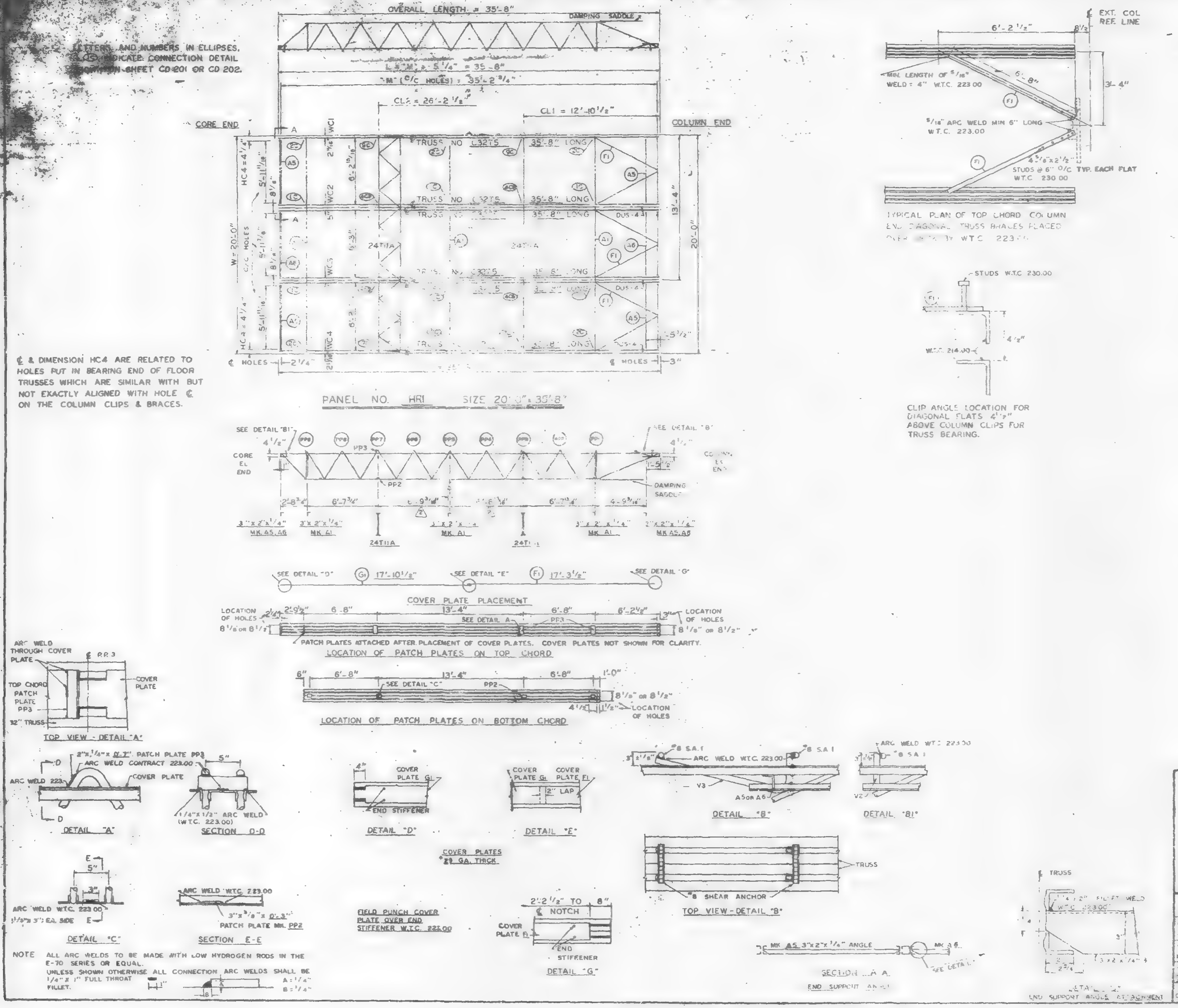
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40, 50-58, 60-66, [illegible]-91 & 93-105 (E & W) 45-49 (W) 80-83 (E) PANEL H[illegible] [illegible] x 35'-8"

(3) BLDG. B FLOORS 14-24, 26-40, 50-58, 60-74, 84-91, 93-106 [illegible]

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-17	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 1/2/[illegible]	DRAWN BY [illegible] DATE APRIL 10, 1968	
APPROVED FOR FABRICATION BY LACLEDE STEEL CO.	DATE	CHECKED BY T.M. [illegible] DATE APRIL 10, 1968	
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. [illegible] H1



REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T5	6	C32T5 - 35'-8"	ST [illegible]
BRIDGING TRUSSES	T11A	2	24T11A - 19'-11"	[illegible]
3"x 2"x 1/4" ANGLE	A1	6	3"x2"x1/4"x 19'-11"	ST [illegible]
	A5	[illegible]	[illegible]	[illegible]
	A6	2	3"x2"x1/4"x 6'-2"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 403
PATCH PLATES	PP3	12	2"x 1/4"x 0'-7"	ST 400
	PP2	12	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	G1	3	7"x.0135"x 17'-10 1/2"	ST 303
	F1	3	7"x.0135"x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	12	2 1/2"x 1 1/2"x 1/4"x 6"	ST 400
#8 SHEAR ANCHOR	SA1	[illegible]	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS-4	3	3 1/2"x 1/2"x 3/8"x 3'-6 3/4"	ST 290
CONNECTION BAR	CB1	2	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .39" x 0'-9"	ST 400
	P7	2	6 1/2" x 1/2" x 1'-0"	ST 401

NO.	DATE	REVISION	BY
[illegible]	6-23-69	AS NOTED	G.D.C.
[illegible]	2-21-69	AS NOTED	G.D.C.
[illegible]	10-18-68	LIST OF MATERIAL	G.D.C.

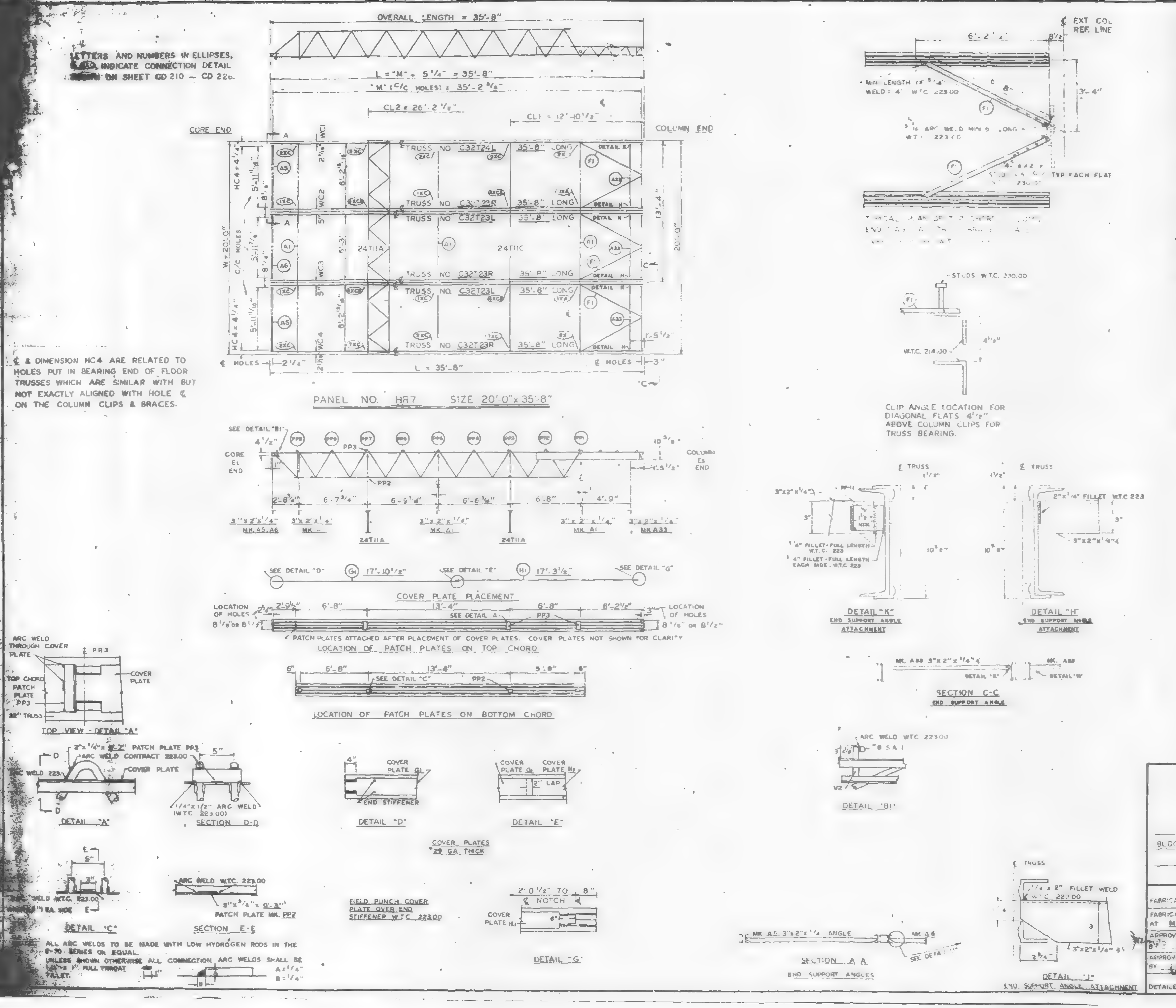
REF. DRWG.

7-AB4-3,1	1-3-69
7-AB4-15 & 16	7-22-68
7-AB4-39-41	1-3-69
SA-124	1-6-69
7-AB3-2	1-4-68
7-AB1-11 & 12	7-22-68
7-AB2-8	7-22-68
7-AB4-42 & 43	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40 (EAST & WEST) 43-49, 50, 56, 60-66, 68-74 (EAST) PANEL HR1 20'-0" x 35'-8"
BLDG. B FLOORS 14-24, 26-40 (NORTH & SOUTH) 45 [illegible]

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-18
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A DATE [illegible]
DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE APRIL 10, 1968
FABRICATION CONT. NO. W.T.C. 221
DETAIL DWG. NO. HR1



REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DWG
FLOOR TRUSSES	T23L	2	C32T23L - 35'-8"	ST 223L
	T23R	3	C32T23R - 35'-8"	ST 223L
	T24L	1	C32T24L - 35'-8"	ST 224L
BRIDGING TRUSSES	T11A	1	24T11A - 19'-11"	ST 211A
	T11C	1	24T11C1 - 19'-11"	ST 211C
3"x2"x1/4 ANGLE	A	3	3"x2"x1/4"x19'-11"	ST 403
	A5	2	3"x2"x1/4"x6'-1 13/16"	ST 403
	A6	1	3"x2"x1/4"x6'-2"	ST 403
	A33	3	3"x2"x1/4"x5'-10 1/2"	ST 410
PATCH PLATES	PP3	12	2"x1/4 x 0'-7"	ST 400
	PP2	12	3"x3/8"x 0'-3"	ST 400
COVER PLATES	G1	3	7"x 0.135" x 17'-10 1/2"	ST 303
	H1	3	7"x 0.135" x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	12	2 1/2" x 1 1/2 x 1/4" x 6"	ST 400
#8 SHEAR ANCHOR	SA	3	#8 REBAR x 0'-7"	ST 400
DIAGONAL FLATS	F1	8	1 1/2" x 3/8" x 8'-8"	ST 402
CONNECTION BAR	CB1	3	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	2	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .39" x 0'-9"	ST 400
	P7	2	6 1/2" x .50" x 1'-0"	ST 401
CLOSURE PLATE	PF11	3	3"x1/4" x 0'-2 3/8"	ST 412

NO.	DATE	REVISION	BY

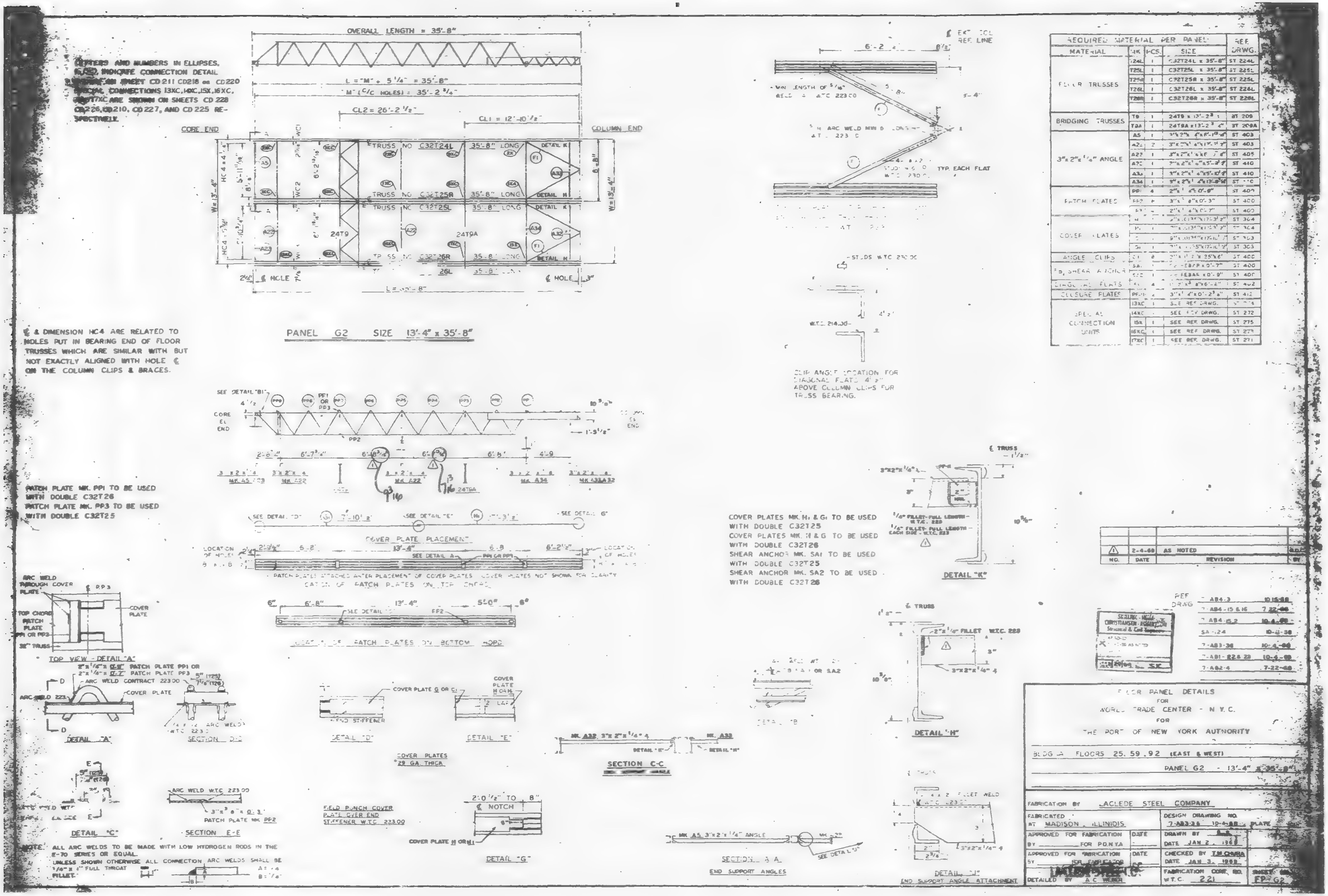
REF. DWG

7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-13 2	10-4-68
SB-124	3-24-68
7-AB3-29	10-4-68
7-AB1-22	10-4-68
7-AB2-6	7-22-68
7-AB2-15	10-4-68

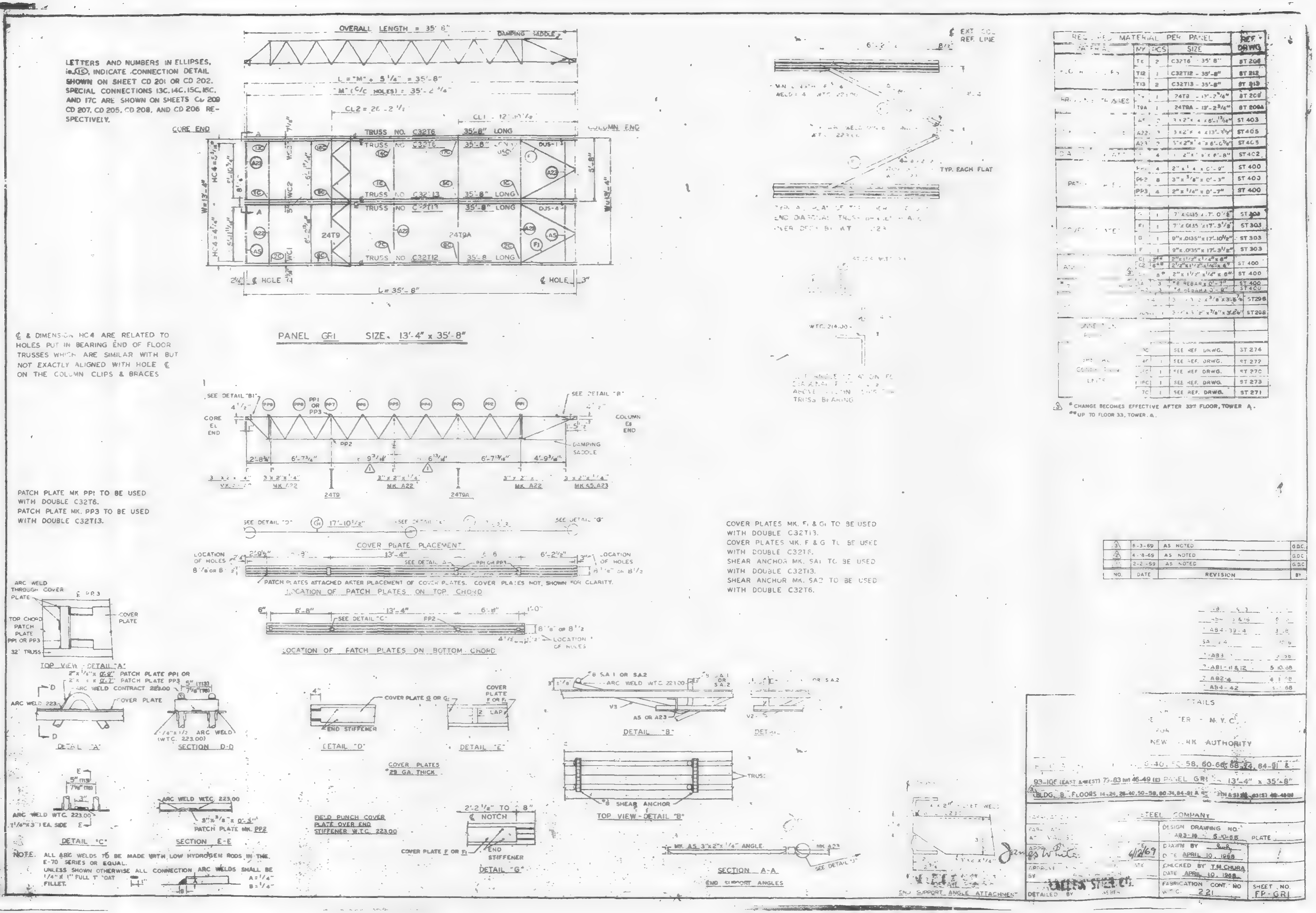
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

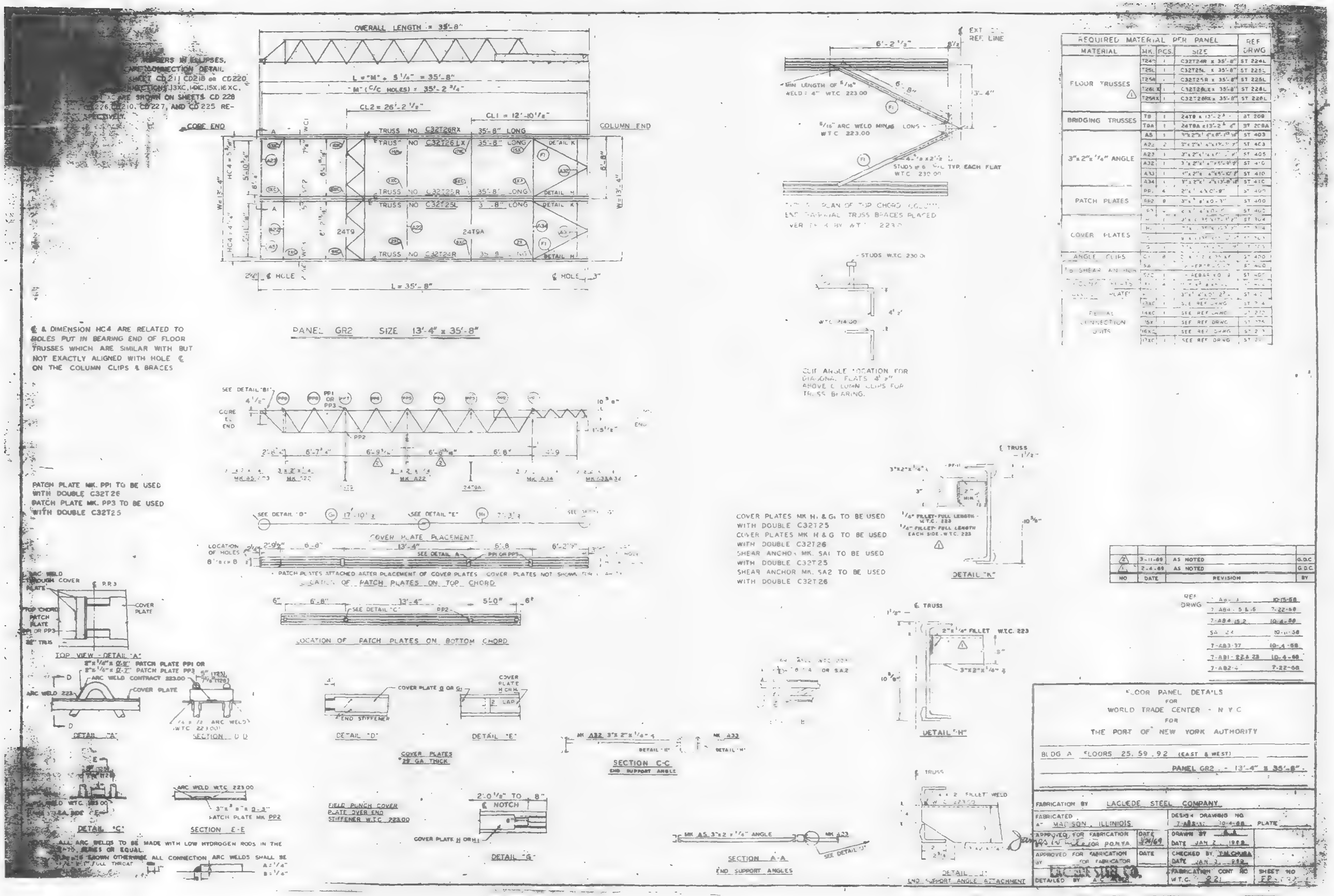
BLDG B FLOORS 25, 59 & 92 (NORTH & SOUTH)
PANEL HR7 - 20'-0" x 35'-8"

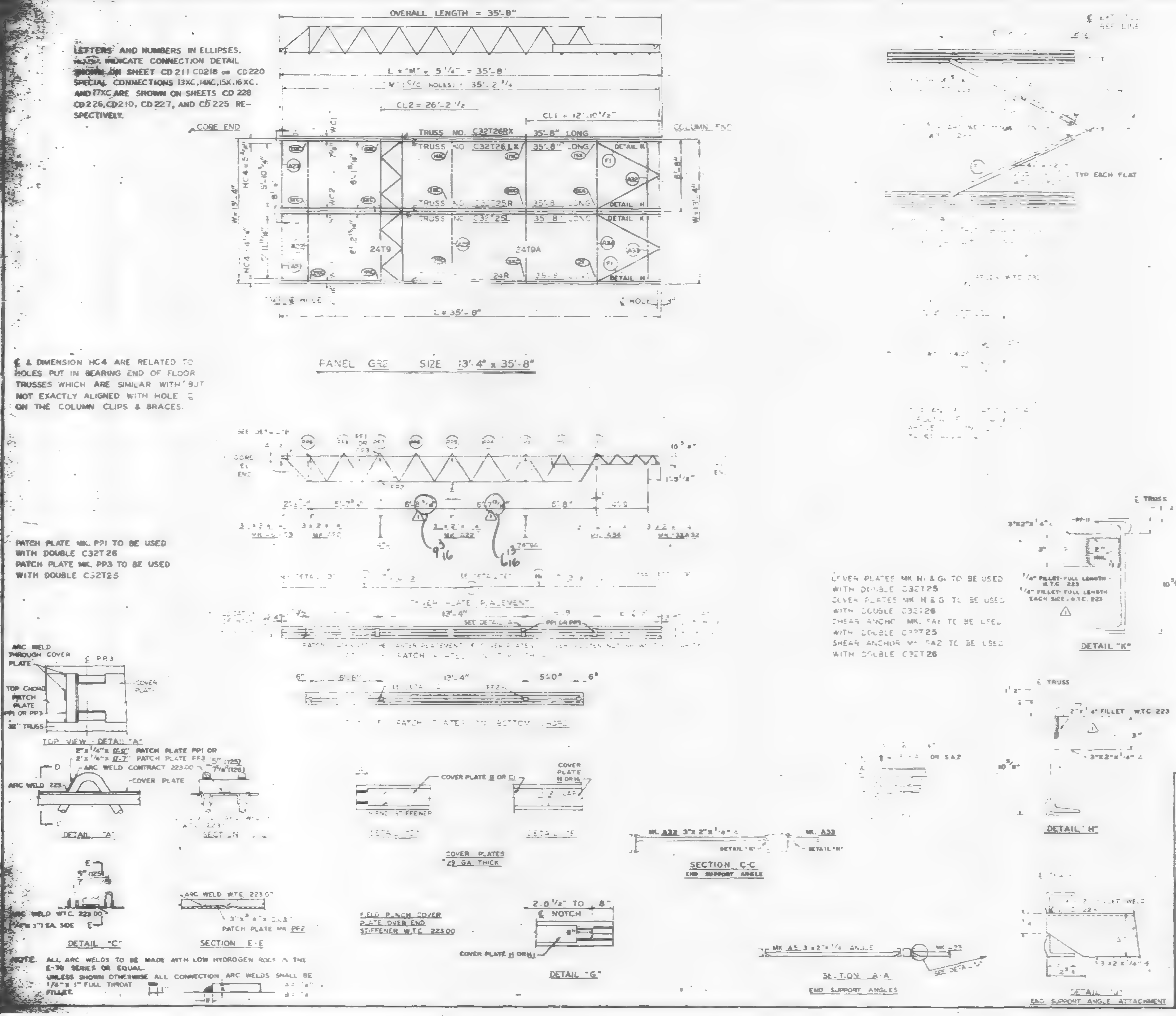
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-39 PLATE
APPROVED FOR FABRICATION BY FOR PONYA DATE 6/6/69
DRAWN BY DATE MAY 8, 1969
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. DATE
CHECKED BY T.M. CHURA DATE MAY 8, 1969
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-HR7



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T24L	1	C32T24L x 35'-8"	ST 224L
	T25L	1	C32T25L x 35'-8"	ST 225L
	T25R	1	C32T25R x 35'-8"	ST 225L
	T26L	1	C32T26L x 35'-8"	ST 226L
	T26R	1	C32T26R x 35'-8"	ST 226L
BRIDGING TRUSSES	T9	1	24T9 x 13'-2 3/4"	ST 209
	T9A	1	24T9A x 13'-2 3/4"	ST 209A
3"x 2"x 1/4" ANGLE	A5	1	[illegible]	ST 403
	A22	2	[illegible]	ST 403
	A23	1	[illegible]	ST 405
	A32	1	[illegible]	ST 410
	A33	1	3"x 2"x 1/4"x5'-10 [illegible]	ST 410
	A34	1	3"x 2"x 1/4"x13'-8 [illegible]	ST 410
PATCH PLATES	PP1	4	2"x 1/4"x 0'-9"	ST 400
	PP2	6	3"x [illegible]"x 0'-3"	ST 400
	PP3	[illegible]	2"x 1/4"x 0'-7"	ST 400
COVER PLATES	H	[illegible]	[illegible]	ST 304
	H1	1	[illegible]	ST 304
	G	[illegible]	[illegible]	ST 303
	G1	1	[illegible]	ST 303
ANGLE CLIPS	C1	2	[illegible]	ST 400
#5 SHEAR ANCHOR	SA1	1	[illegible] REBAR x 0'-7"	ST 400
	SA2	1	[illegible] REBAR x 0'-9"	ST 400
DIAGONAL FLATS	F1	4	[illegible] x 6'-2"	ST 402
CLOSURE PLATES	PF-1	2	3"x 1/4"x 0'-2 3/4"	ST 412
SPECIAL CONNECTION UNITS	13XC	1	SEE REF DRWG.	[illegible]
	14XC	1	SEE REF DRWG.	ST 272
	15X	1	SEE REF DRWG.	ST 275
	16XC	1	SEE REF DRWG.	ST 27[illegible]
	17XC	1	SEE REF DRWG.	ST 271


LETTERS AND NUMBERS IN ELLIPSES, ie.(13) INDICATE CONNECTION DETAIL SHOWN ON SHEET CD 201 OR CD 202. SPECIAL CONNECTIONS 13C, 14C, 15C, 16C, AND 17C ARE SHOWN ON SHEETS CD 209 CD 207, CD 205, CD 208, AND CD 206 RESPECTIVELY.
OVERALL LENGTH = 35'-8"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO. C32T6 35'-8" LONG
TRUSS NO. C32T13 35'-8" LONG
TRUSS NO. C32T12 35'-8" LONG
24T9
24T9A
PANEL GR1 SIZE 13'-4" x 35'-8"
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES
PATCH PLATE MK PP1 TO BE USED WITH DOUBLE C32T6.
PATCH PLATE MK. PP3 TO BE USED WITH DOUBLE C32T13.
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
COVER PLATES MK. F1 & G1 TO BE USED WITH DOUBLE C32T13.
COVER PLATES MK. F & G TO BE USED WITH DOUBLE C32T6.
SHEAR ANCHOR MK. SA1 TO BE USED WITH DOUBLE C32T13.
SHEAR ANCHOR MK. SA2 TO BE USED WITH DOUBLE C32T6.
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B"
DETAIL "C"
SECTION E-E
COVER PLATES 29 GA. THICK
FIELD PUNCH COVER PLATE OVER END STIFFENER W.T.C. 223.00
DETAIL "G"
TOP VIEW - DETAIL "B"
SECTION A-A
END SUPPORT ANGLES
END SUPPORT ANGLE ATTACHMENT
NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
REQUIRED MATERIAL PER PANEL
*CHANGE BECOMES EFFECTIVE AFTER 33rd FLOOR, TOWER A.
**UP TO FLOOR 33, TOWER A.
REVISION
NEW YORK AUTHORITY
STEEL COMPANY
DESIGN DRAWING NO.
DRAWN BY
DATE APRIL 10, 1968
CHECKED BY T.M.CHURA
DATE APRIL 10, 1968
FABRICATION CONT. NO W.T.C. 221
SHEET NO. FP-GR1


OVERALL LENGTH = 35'-8"
L = "M" + 5 1/4" = 35'-8"
"M" (C/C HOLES) = 35'-2 3/4"
CL2 = 26'-2 1/8"
CL1 = 12'-10 1/8"
CORE END
COLUMN END
TRUSS NO. C32T26RX 35'-8" LONG
TRUSS NO. C32T26LX 35'-8" LONG
TRUSS NO. C32T25R 35'-8" LONG
TRUSS NO. C32T25L 35'-8" LONG
TRUSS NO. C32T24R
24T9
24T9A
L = 35'-8"
PANEL GR2 SIZE 13'-4" x 35'-8"
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES
PATCH PLATE MK. PP1 TO BE USED WITH DOUBLE C32T26
PATCH PLATE MK. PP3 TO BE USED WITH DOUBLE C32T25
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
COVER PLATES 22 GA THICK
DETAIL "C"
SECTION E-E
FIELD PUNCH COVER PLATE OVER END STIFFENER W.T.C. 223.00
DETAIL "G"
SECTION C-C
END SUPPORT ANGLE
SECTION A-A
END SUPPORT ANGLES
COVER PLATES MK H1 & G1 TO BE USED WITH DOUBLE C32T25
COVER PLATES MK H & G TO BE USED WITH DOUBLE C32T26
SHEAR ANCHOR MK. SA1 TO BE USED WITH DOUBLE C32T25
SHEAR ANCHOR MK. SA2 TO BE USED WITH DOUBLE C32T26
DETAIL "K"
DETAIL "H"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4" x" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
REQUIRED MATERIAL PER PANEL
MATERIAL
MK.
PCS.
SIZE
REF DRWG
FLOOR TRUSSES
C32T24R x 35'-8" ST 224L
C32T25L x 35'-8" ST 225L
C32T25R x 35'-8" ST 225L
C32T26LX x 35'-8" ST 226L
C32T26RX x 35'-8" ST 226L
BRIDGING TRUSSES
3"x 2"x 1/4" ANGLE
PATCH PLATES
COVER PLATES
ANGLE CLIPS
3-11-69 AS NOTED G.D.C.
2-4-69 AS NOTED G.D.C.
NO DATE REVISION BY
FLOOR PANEL DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY
BLDG A FLOORS 25, 59, 92 (EAST & WEST)
PANEL GR2 - 13'-4" x 35'-8"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR P.O.N.Y.A.
DRAWN BY
DATE JAN 2, 1969
CHECKED BY
DATE JAN 3, 1969
FABRICATION CONT NO W.T.C. 221
SHEET NO



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES ⚠1	T24R	1	C32T24R x 35'-8"	ST 224L
	T25L	1	C32T25L x 35'-8"	ST 225L
	T25R	1	C32T25R x 35'-8"	ST 225L
	T26LX	1	C32T26LX x 35'-8"	ST 226L
	T26RX	1	C32T26RX x 35'-8"	ST 226L
BRIDGING TRUSSES	T9	1	24T9 x 13'-2 3/4"	ST 209
	T9A	1	24T9A x 13'-2 3/4"	ST 209A
3"x 2"x 1/4" ANGLE	A5	1	[illegible]	ST 403
	A22	2	[illegible]	ST 403
	A32	1	[illegible]	ST 405
	A33	1	[illegible]	ST 410
	A33	1	[illegible]	ST 410
	A34	1	[illegible]	ST 410
PATCH PLATES	PP1	4	2"x 1/4"x 0'-8"	ST 400
	PP2	2	3"x 3/8"x 0'-3"	ST 400
	PP3	[illegible]	2"x 1/4"x 0'-7"	ST 400
COVER PLATES	H	1	[illegible]	ST 304
	H1	1	[illegible]	ST 304
	G	1	[illegible]	ST 303
	G1	1	[illegible]	[illegible]
[illegible]	[illegible]	2	[illegible]	ST 400
	[illegible]		[illegible]	ST 400
[illegible]	[illegible]		REBAR x 0'-9	ST 400
[illegible] PLATES	[illegible]	4	[illegible]	ST 402
[illegible] PLATES	PF	2	[illegible]	ST 412
	13XC		SEE REF. DRWG.	ST [illegible]
[illegible] CONNECTION UNITS	14XC	1	SEE REF. DRWG.	ST 272
	15X	1	SEE REF. DRWG.	ST 275
	16XC	1	SEE REF. DRWG.	ST 2[illegible]
	17XC	1	SEE REF. DRWG.	ST 2[illegible]

NO	DATE	REVISION	BY
1	2-4-69	AS NOTED	G.D.C.

REF.	
[illegible]	10-15-68
[illegible] 5 & 6	7-22-68
[illegible] 15.2	10-4-68
[illegible]	[illegible]-68
[illegible] 37	10-4-68
[illegible] 22 & 23	10-4-68
[illegible] 4	7-22-68

PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

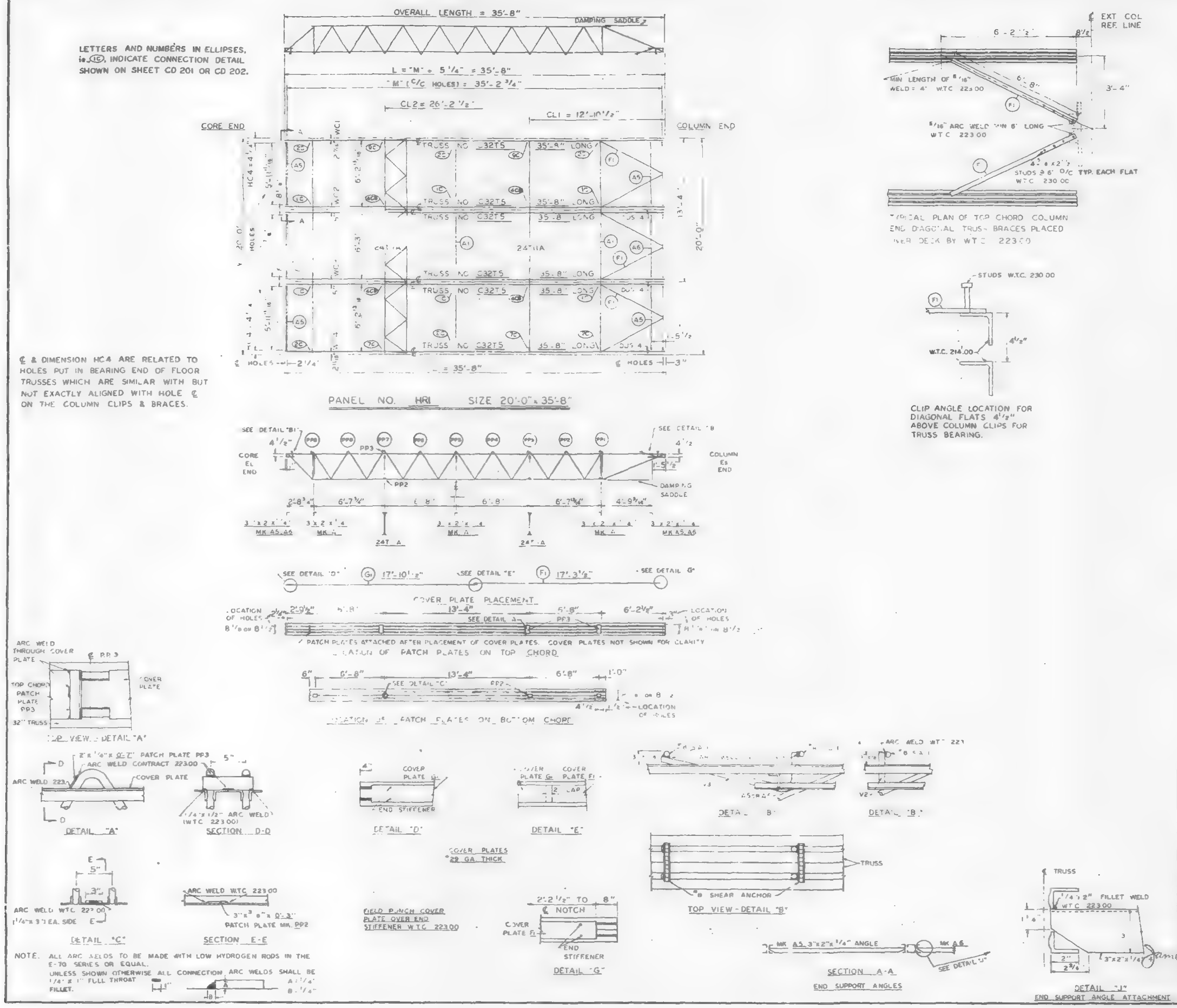
FLOORS 25, 59, 92 (EAST & WEST)

PANEL GR2 -- 13'-4" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-A83-37 10-4-68 PLATE
APPROVED FOR FABRICATION BY ____ FOR P.O.N.Y.A. DATE	DRAWN BY [illegible] DATE JAN 2 1969
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE	CHECKED BY T.H.CHURA DATE JAN 3, 1969
DETAILED BY LACLEDE STEEL CO.	FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FP-GR2



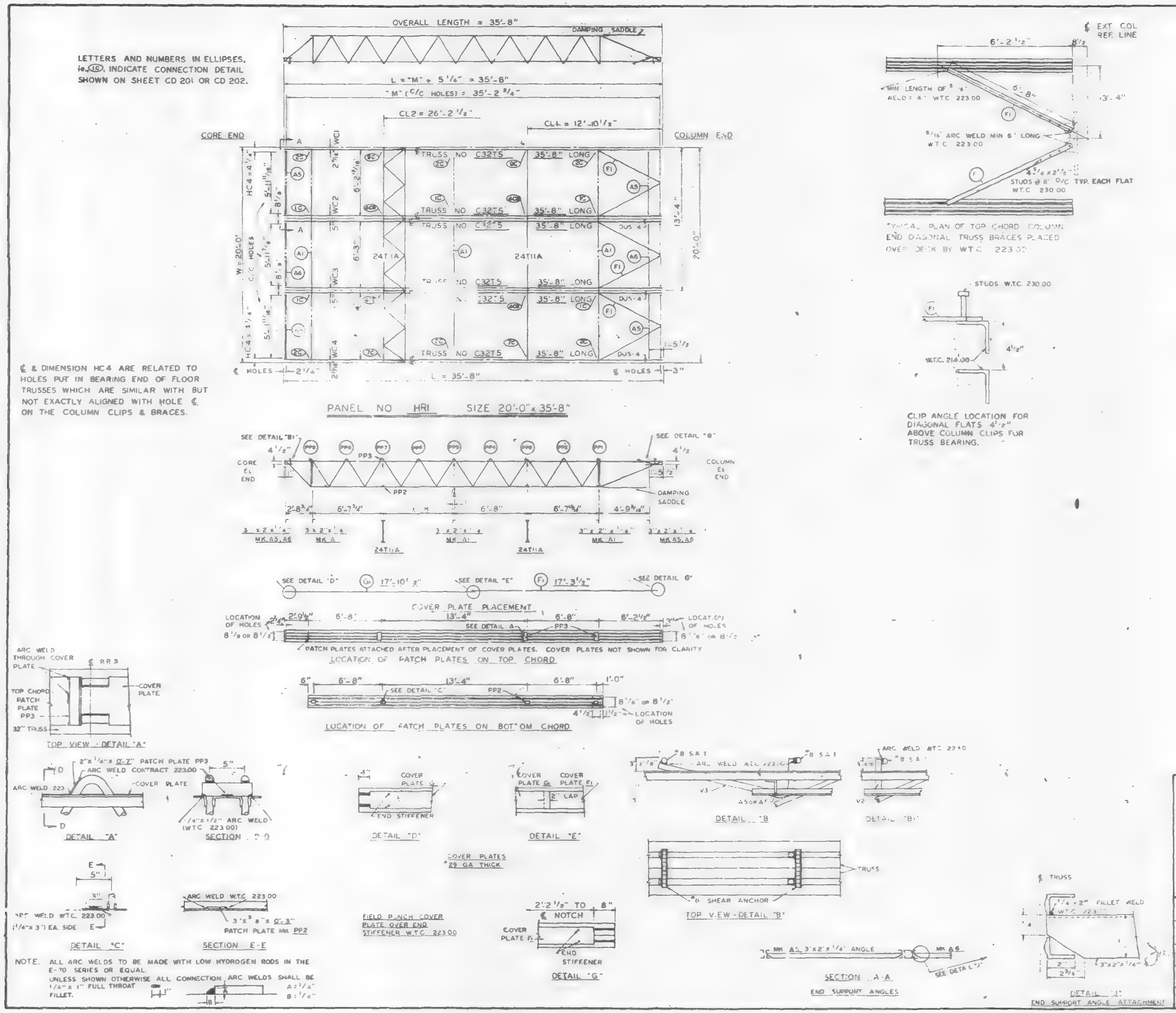
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	6	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T11A	2	2T11A - 19'-11"	BT211A
3"x 2"x 1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-11"	ST 403
	A5	4	3"x2"x1/4"x 8'-1 13/16"	ST 403
	A6	2	3"x2"x1/4"x 6'-2"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP3	12	2"x 1/4"x 0'-7"	ST 400
	PP2	12	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	G1	3	7"x 0.135"x 17'-10 1/2"	ST 303
	F1	3	7"x 0.135"x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	12	2 1/2"x 1 1/2"x 1/4"x 6"	ST 400
#8 SHEAR ANCHOR	SA1	3	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS-4	3	3 1/2"x 3 1/2"x 3/8"x 3 6 7/8"	ST 298
CONNECTION BAR	CB1	2	1" ● x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	2	4 1/2"x .38"x 0'-9"	ST 400
⚠	P7	2	3 1/2"x 1/2"x 1'-0"	ST 401

NO.	DATE	REVISION	BY
⚠	10-16-68	LIST OF MATERIAL	G.D.C.

FLOOR PANEL DETAIL
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40 (EAST & WEST) 46-49, 50-58, 60-66, 68-74 (EAST)
PANEL HR1 - 20'-0" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7 AB3-18 5-10-66	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A.	DATE 10/21/68	DRAWN BY	DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA	DATE APRIL 10, 1968
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-HR1



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	6	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T11A	2	2T11A - 19'-11"	BT211A
3"x 2"x 1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-11"	ST403
	A5	4	3"x2"x1/4"x 6'-[illegible]	ST403
	A6	2	3"x2"x1/4"x 6'-2"	ST403
DIAGONAL FLATS	F	6	[illegible] 2"x 5/8"x 6'-8"	ST402
PATCH PLATES	PP3	12	2"x 1/4" x 0'-7"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	[illegible]	3	[illegible] x 0.035 x 7'-[illegible]	ST 303
	F	[illegible]	[illegible] x 0.035 x 7'-3 1/2"	ST 303
ANGLE CLIPS	C2	2	2 1/2"x1 1/2"x1/4" x 6"	ST 400
#8 SHEAR ANCHOR	SA1	4	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS-4	3	[illegible]	ST298
CONNECTION BAR	CB1	2	1" ● x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .39" x 0'-9"	ST 400
	P3	2	4 1/2" x .39" x 1'-0"	ST 400

THE PORT OF NEW YORK AUTHORITY

FLOORS 10-24, 26-40 (EAST & WEST) 46-4[illegible], 50-58, 60-66, 68-74 (EAST)

PANEL HRI 20'-0" x 35'-8"

FABRICATION BY [illegible] STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION BY [illegible] DATE 8/16/68

APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE

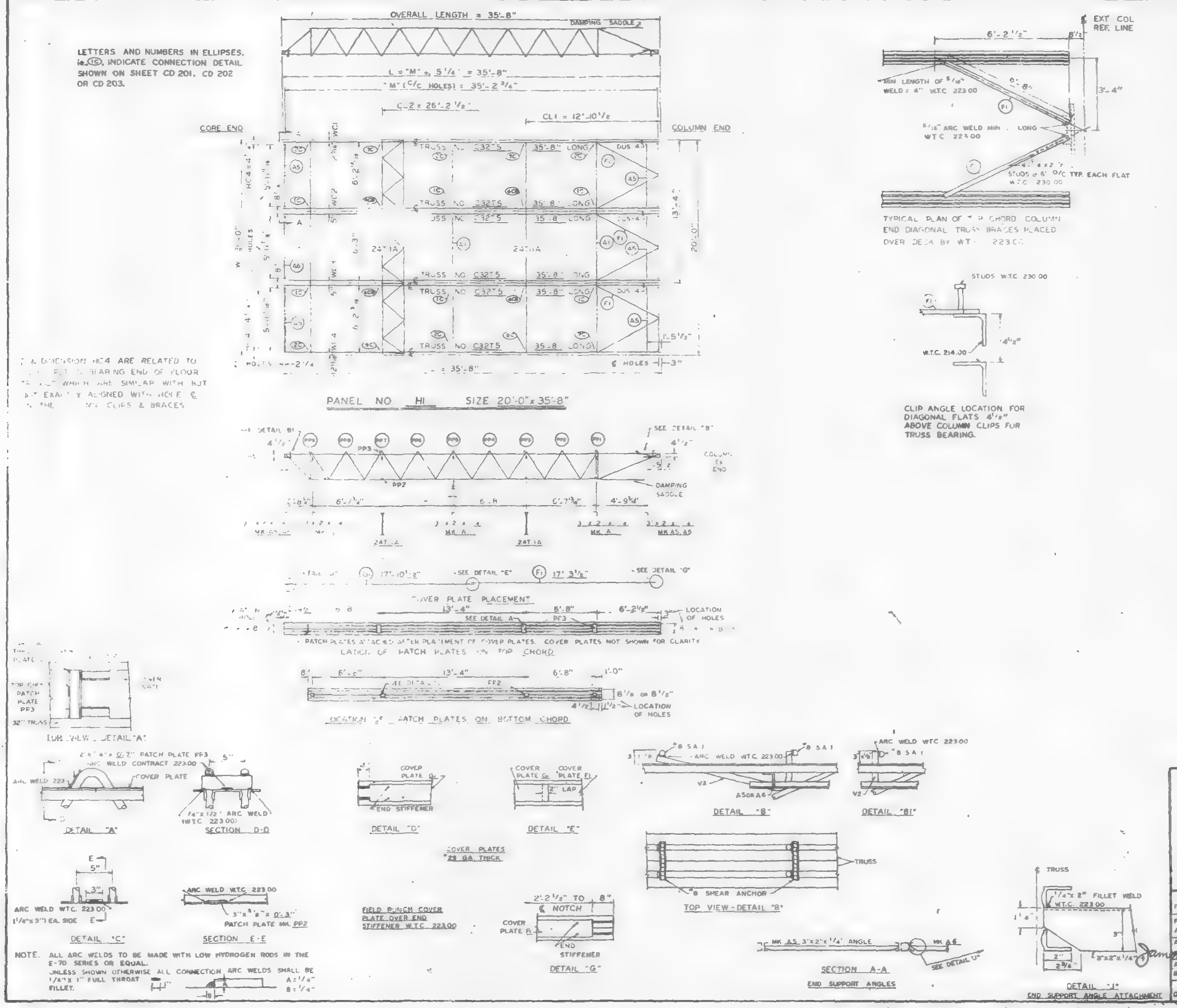
DRAWN BY [illegible]

CHECKED BY [illegible]

DETAILED BY A. C. WEBER

22

SHEET NO. FP-HRI



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	6	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T11A	2	2T11A - 19'-11"	ST211A
3"x2"x1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-1"	ST 403
	A5	4	3"x2"x1/4"x 6'-1 13/16"	ST 403
	A6	2	3"x2"x1/4"x 6'-2"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x 6'-8"	ST 402
PATCH PLATES	PP3	12	2"x1/4"x 0'-7"	ST 400
	PP2	12	3"x3/8"x 0'-3"	ST 400
COVER PLATES	G1	3	7"x 0.135"x 17'-10 1/2"	ST 303
	F1	3	7"x 0.135"x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	12	2 1/2"x 1 1/2"x 1/4"x 6"	ST 400
#8 SHEAR ANCHOR	SA1	9	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE (1)	DUS-4	3	3 1/2"x 3 1/2"x 3/8"x 1'-6 3/8"	ST298
CONNECTION BAR	CB1	2	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	2	4 1/2"x .30"x 0'-9"	ST 400
(1)	P7	2	6 1/2"x 1/2"x 1'-0"	ST 401

NO.	DATE	REVISION	BY
(1)	10-16-68	MATERIAL LIST	G.D.C.

REF. DRWG.

7-AB4-3 & 31	1-3-68
7-AB4-15 & 16	5-8-68
7-AB4-39-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-11 & 12	5-10-68
7-AB2 6	2-15-68
7-AB4-42	4-1-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-24, 26-40, 50-58, 60-66, 68-74, 84-91 &
93-106 (EAST & WEST) PANEL H1 - 20'-0" x 35'-8"
45-49 (WEST) 80-83 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINIOIS

DESIGN DRAWING NO. 7-AB3-17 5-10-68 PLATE

APPROVED FOR FABRICATION BY [signature] FOR P.O.N.Y.A DATE 10/21/68

DRAWN BY [initials] DATE APRIL 10, 1968

APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE

CHECKED BY T.M. CHURA DATE APRIL 10, 1968

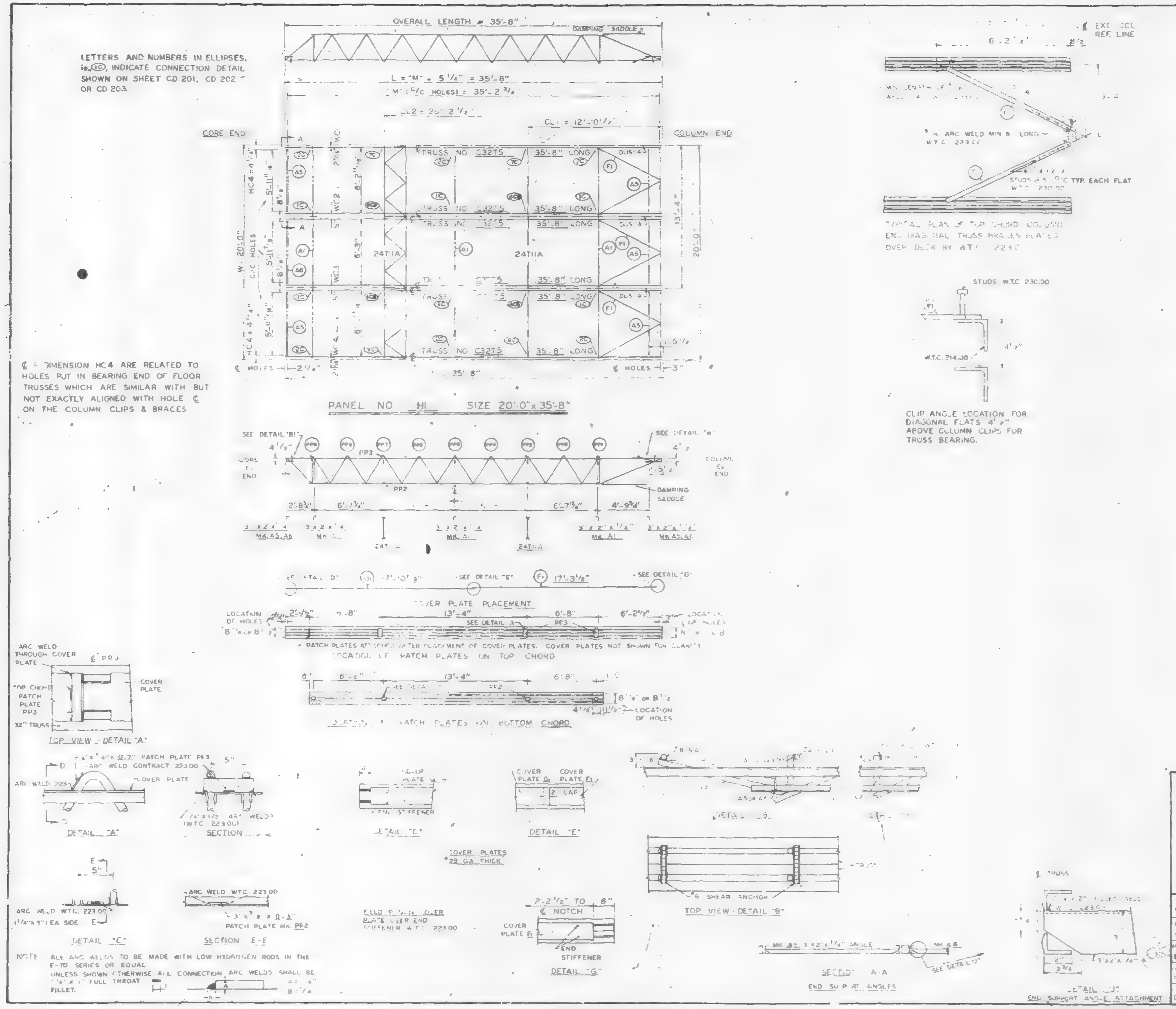
LACLEDE STEEL CO.

DETAILED BY A. C. WEBER

FABRICATION CONT. NO. WTC 221

SHEET NO FP-H1

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAIL SHOWN ON SHEET CD 201, CD 202 OR CD 203.



℄ - DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

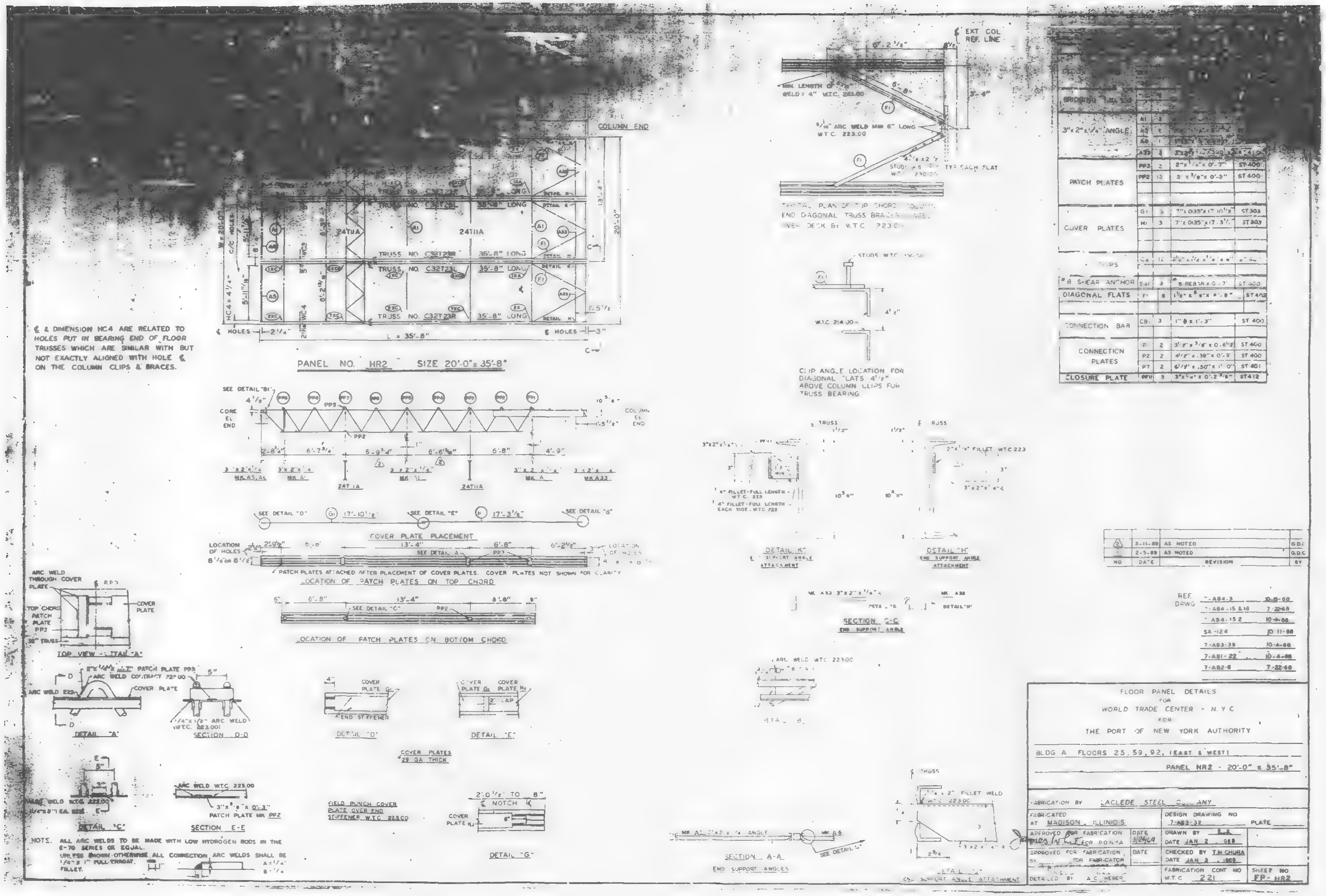
REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	8	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T11A	2	2T11A - 19'-1"	BT211A
3"x2"x1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-11"	ST 403
	A5	4	3"x2"x1/4"x 6'-1 13/16"	ST 403
	A6	2	3"x2"x1/4"x 6'-2"	ST 403
DIAGONAL FLATS	F	6	[illegible] x 5/8" x 0'-8"	ST 402
PATCH PLATES	PP3	12	2" x 1/4 x 0'-7"	ST 400
	PP2	2	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	G1	3	7" x 0.35" x 7'-0 1/2"	ST 303
	F1	3	7" x 0.135 x 7'-3 1/2"	ST 303
ANGLE CLIP	C2	12	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
#8 SHEAR ANCHOR	SA1	9	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS 4	4	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
[illegible] BAR	CB1	2	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .39" x 0'-9"	ST 400
	P3	2	4 1/2" x .39" x [illegible]'-0"	ST 400

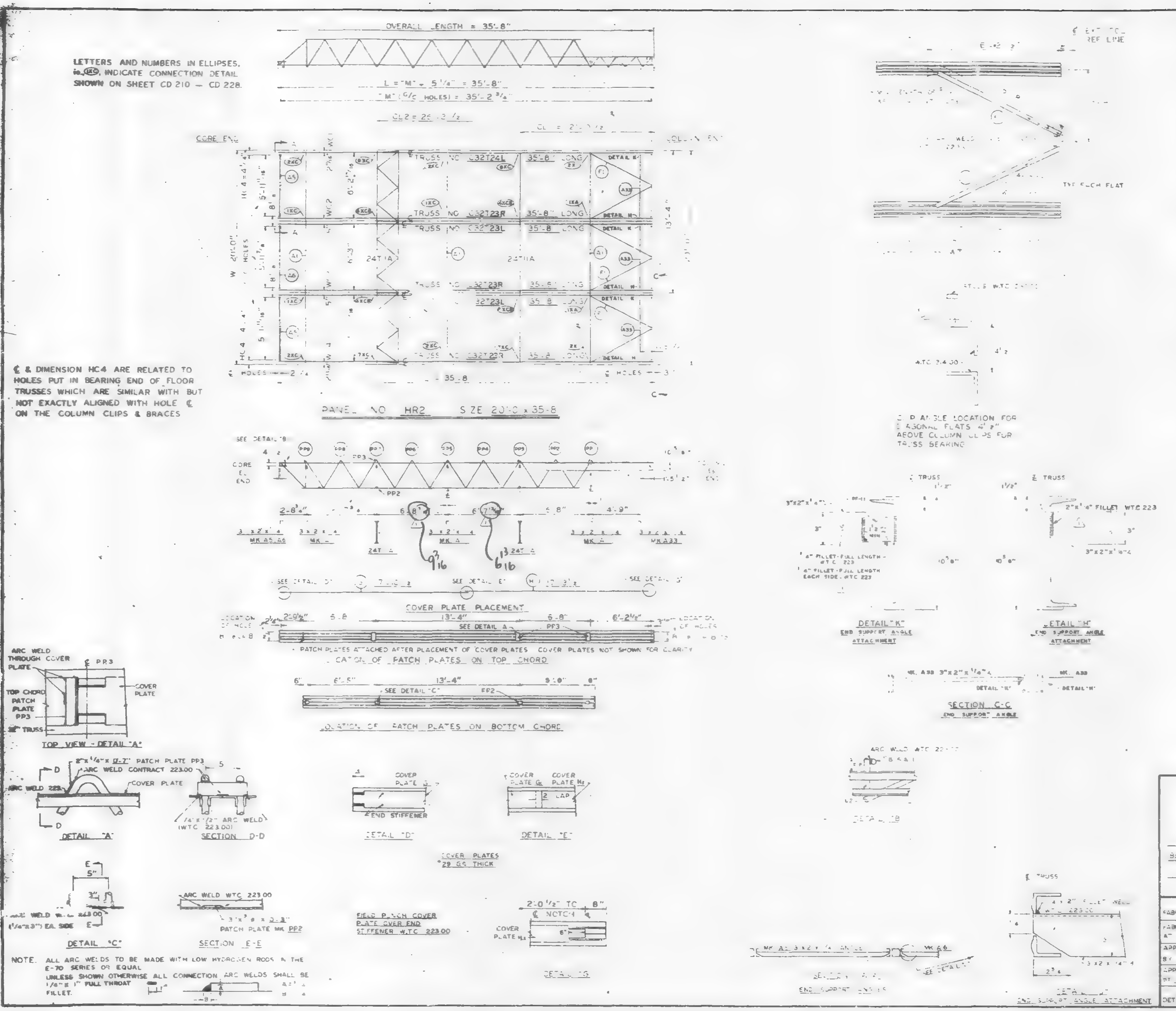
PANEL DETAILS FOR WORLD TRADE CENTER FOR THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40, 50-58, 60-66, 68-74, 84-91 & 93-106 (EAST & WEST) PANEL H1 20'-0" x 35'-8"
45-49 (WEST) 80-83 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7 AB3-17 5-10-68	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA	DATE 8/19/68	DRAWN BY [illegible] DATE APRIL 10, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 10, 1968	
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP-H1


COLUMN END
TRUSS NO. C32T23L 35'-8" LONG
TRUSS NO. C32T23R 35'-8" LONG
24T11A
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
L = 35'-8"
PANEL NO. HR2 SIZE 20'-0" x 35'-8"
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
COVER PLATES 20 GA THICK
DETAIL "C"
SECTION E-E
FIELD PUNCH COVER PLATE OVER END STIFFENER W.T.C. 223.00
DETAIL "G"
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
EXT COL REF. LINE
MIN. LENGTH OF WELD = 4" W.T.C. 223.00
5/16" ARC WELD MIN 6" LONG W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
DETAIL "K"
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
SECTION A-A END SUPPORT ANGLES
3"x2"x1/4" ANGLE
A1 3
A5 2
A6 1
A33
PATCH PLATES
PP3 2 2"x1/4"x 0'-7" ST 400
PP2 12 3"x3/8"x 0'-3" ST 400
COVER PLATES
G1 3 7"x 0.135"x 17'-10 1/2" ST 303
H1 3 7"x 0.135"x 17'-3 1/2" ST 303
#8 SHEAR ANCHOR SA1 3 #8 REBAR x 0'-7" ST 400
DIAGONAL FLATS F1 6 ST 402
CONNECTION BAR CB1 3 1" ⌀ x 1'-3" ST 400
CONNECTION PLATES
P 2 ST 400
P2 2 4 1/2" x .38" x 0'-9" ST 400
P7 2 6 1/2" x .50" x 1'-0" ST 401
CLOSURE PLATE PF11 3 ST 412
3-11-69 AS NOTED G.D.C.
2-5-69 AS NOTED G.D.C.
NO DATE REVISION BY
REF. DRWG
7-AB4-3 10-8-68
7-AB4-15 & 16 7-22-68
7-AB4-15.2 10-4-68
SA-124 10-11-68
7-AB3-39 10-4-68
7-AB1-22 10-4-68
7-AB2-6 7-22-68
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG A FLOORS 25, 59, 92, (EAST & WEST)
PANEL HR2 - 20'-0" x 35'-8"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-32
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A.
DATE 3/24/69
DRAWN BY
DATE JAN 2, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE
CHECKED BY T.M. CHURA
DATE JAN 3, 1969
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP-HR2



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T23L	2	C32T23L - 35'-8"	ST223L
	T23R	3	C32T23R - 35'-8"	ST 223L
	T24L	1	C32T24L - 35'-8"	ST 224L
BRIDGING TRUSSES	T11A	2	24T11A - 19'-11"	ST211A
3"x2"x1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-11"	ST 403
	A5	2	3"x2"x1/4"x 6'-1 13/16"	ST403
	A6	1	3"x2"x1/4"x 6'-2"	ST 403
	A33	3	3"x2"x1/4"x 5'-10 1/2"	ST 410
PATCH PLATES	PP3	12	2"x1/4"x 0'-7"	ST 400
	PP2	12	3"x3/8"x 0'-3"	ST 400
COVER PLATES	G	3	7 x 0.35 x 17'-10 1/2"	ST 303
	H	3	7 x 0.35 x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	12	2 1/2" x 1 1/2 x 1/4" x 6"	ST 400
#4 SHEAR ANCHOR RODS	SA	3	#8 REBAR x 0'-7"	ST 400
DIAGONAL FLATS	F1	8	1 1/2" x 5/8" x 6'-8"	ST 402
CONNECTION BAR	CB	3	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	2	3 1/2" x 3/8 x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .30" x 0'-9"	ST 400
	P7	2	6 1/2" x .50" x 1'-0"	ST 401
CLOSURE PLATE	PFH	3	3"x1/4"x 0'-2 3/8"	ST412

NO.	DATE	REVISION	BY
1	2-5-69	AS NOTED	G.R.C.

REF DRWG

7-AB4-3	10-8-68
7-AB4-15 & 16	7-22-68
7-AB4-15.2	10-4-68
SA-124	10 11-68
7-AB3-39	10-4-68
7-AB1-26	10-4-68
7-AB2-8	7-22-68

SKILLING-HELLE CHRISTIANSEN-ROBERTSON Structural & Civil Engineers

2/28/69 SK

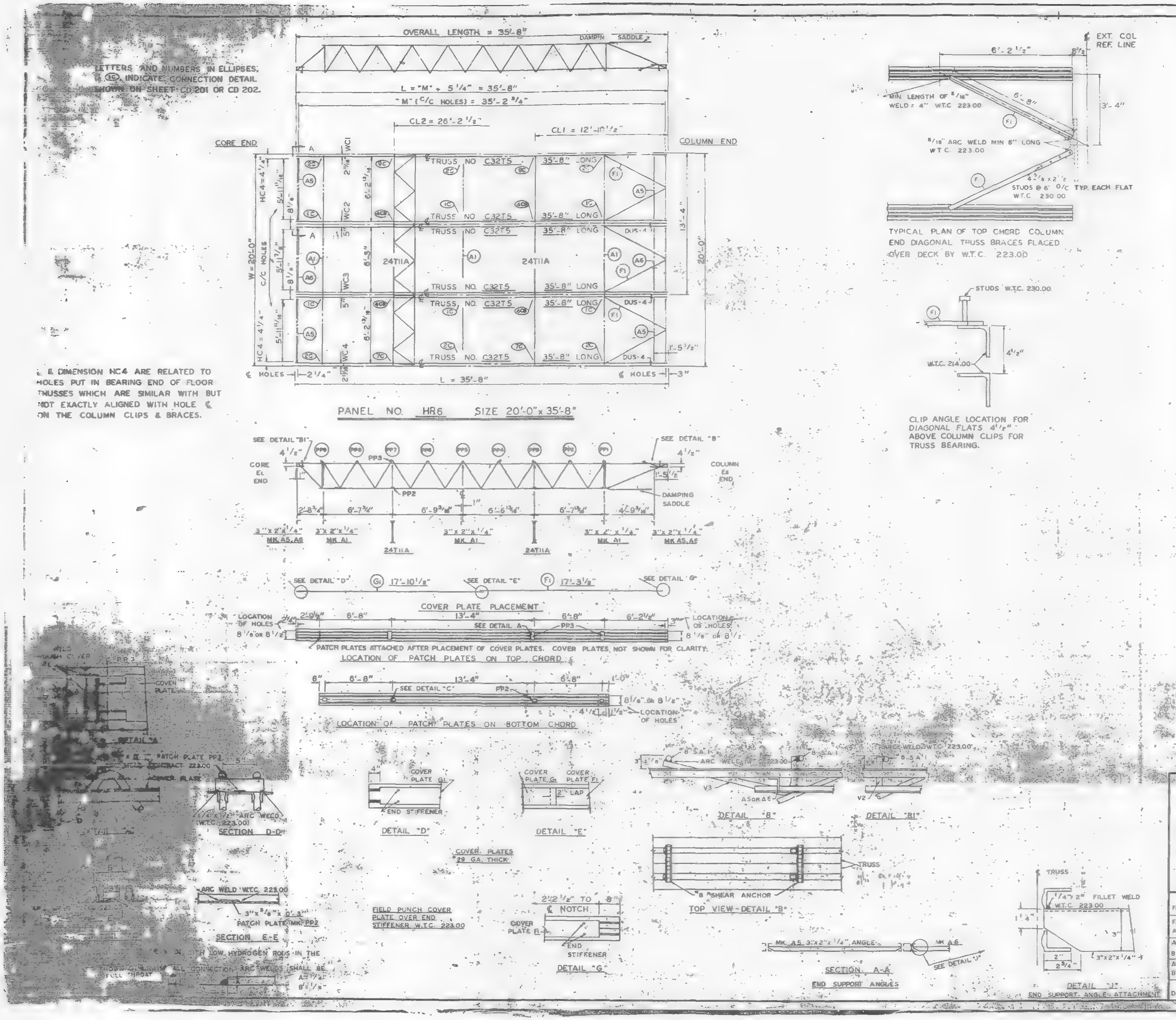
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 25, 59, 92, (EAST & WEST)

PANEL HR2 - 20-0" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-39	PLATE
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A.	DATE	DRAWN BY ______ DATE JAN 2, 1969	
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE JAN 3, 1969	
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO. FP-HR2



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	6	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T11A	2	2T 1A - 19'-11"	BT211A
3" x 2" x 1/4" ANGLE	A1	3	3" x 2" x 1/4" x 19'-11"	ST403
	A5	4	3" x 2" x 1/4" x 8'-1 13/16"	ST403
	A6	2	3" x 2" x 1/4" x 6'-2"	ST403
DIAGONAL FLATS	F	6	1 1/2" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP3	12	2" x 1/4" x 0'-7"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	G1	3	7" x .0135" x 17'-10 1/2"	ST 303
	F1	3	7" x .0135" x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	12	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
# 8 SHEAR ANCHOR	SA1	9	# 8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS-4	3	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	2	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .39" x 0'-9"	ST 400
	P7	2	6 1/2" x 1/2" x 1'-0"	ST 401

1'-0"
0'-8"

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-39-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-11 & 12	7-22-68
7-AB2-6	7-22-68
7-AB4-42	10-15-68

SKILLING · HELLE · CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers
APPROVED
☒ APPROVED AS NOTED
RESUBMIT
REJECTED
Date 7/31/

FLOOR PANEL DETAILS

FOR

WORLD TRADE CENTER - N.Y.C.

FOR

THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 50-58, 60-74 (WEST) 84-91, 93-106 (EAST & WEST)

PANEL HR6 - 20'-0" x 35'-8"

BLDG. B FLOORS 50-58, 60-74 (SOUTH) 84-91, 93- (NORTH & SOUTH)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINIOIS

DESIGN DRAWING NO. 7-AB3-18 PLATE

APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE

DRAWN BY ____ DATE MAY 8, 1969

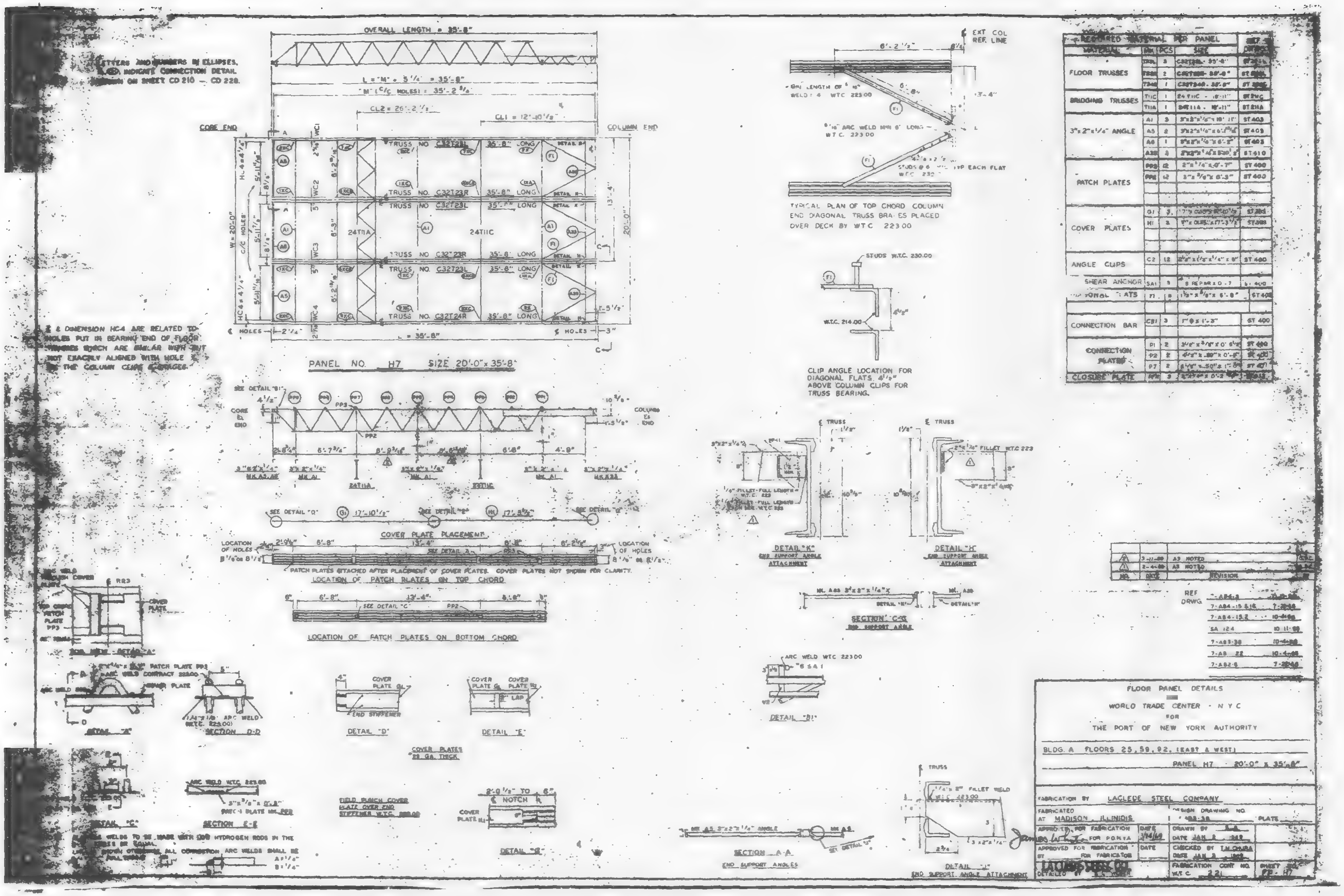
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. DATE

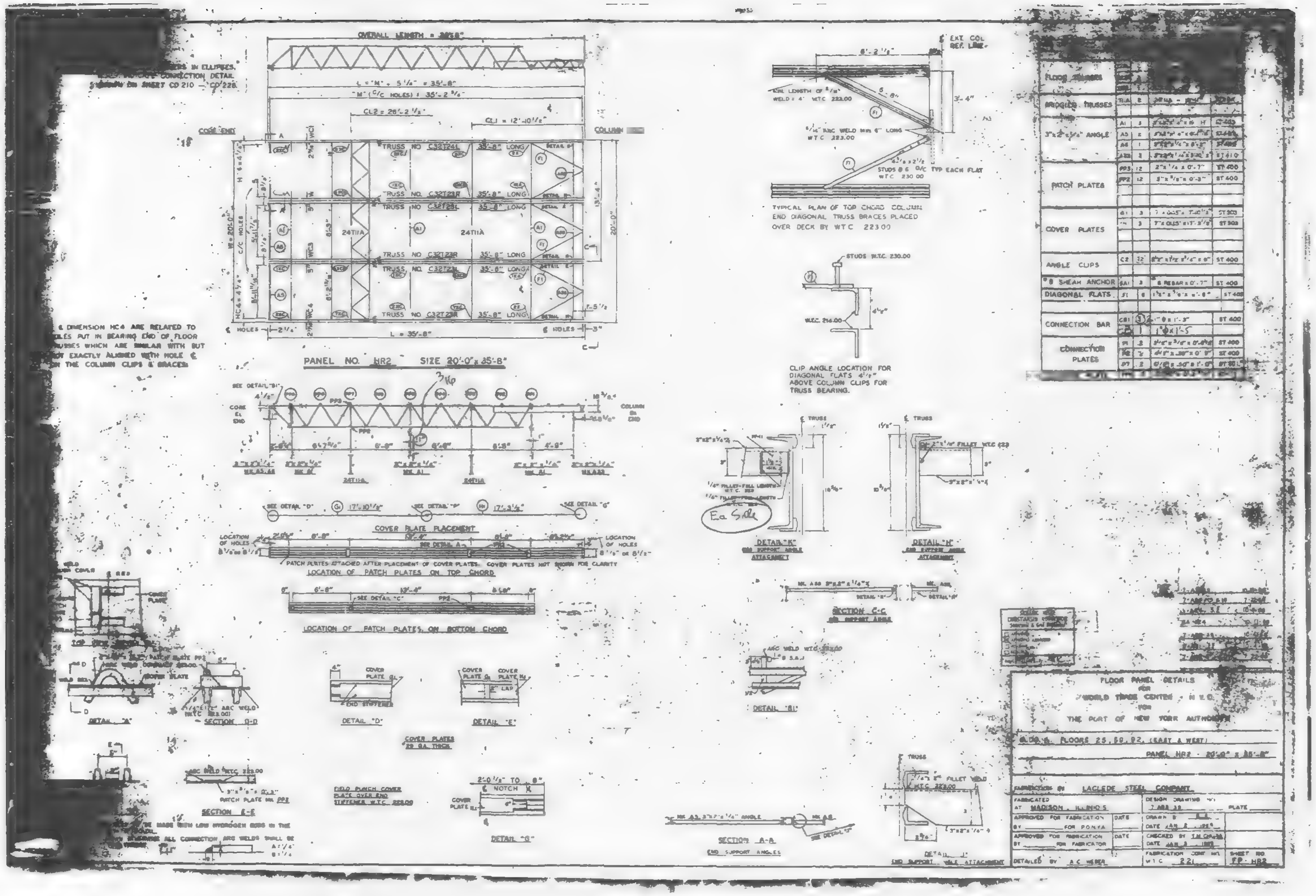
CHECKED BY T.M. CHURA DATE MAY 8, 1969

DETAILED BY A. C. WEBER

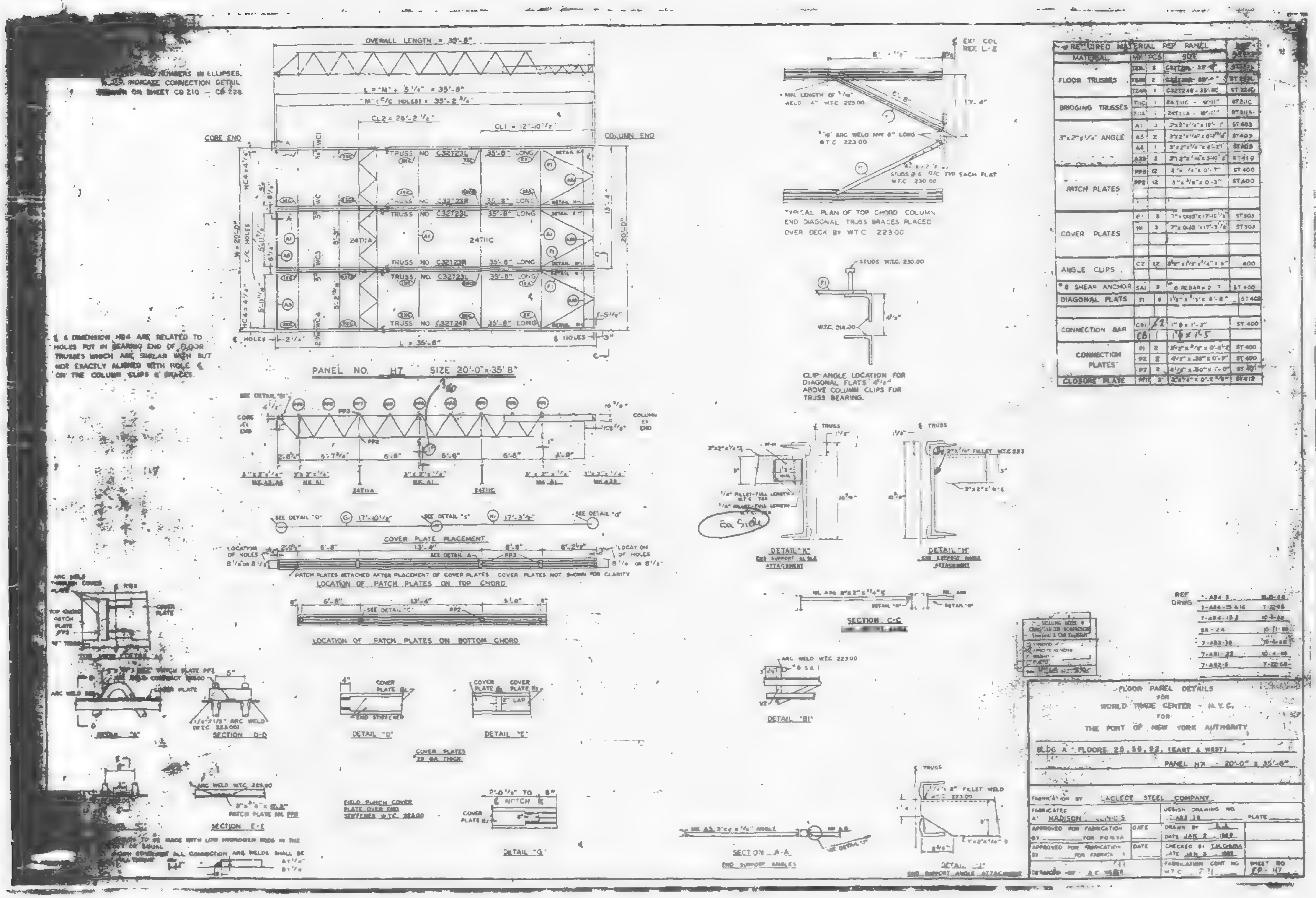
FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FP-HR6

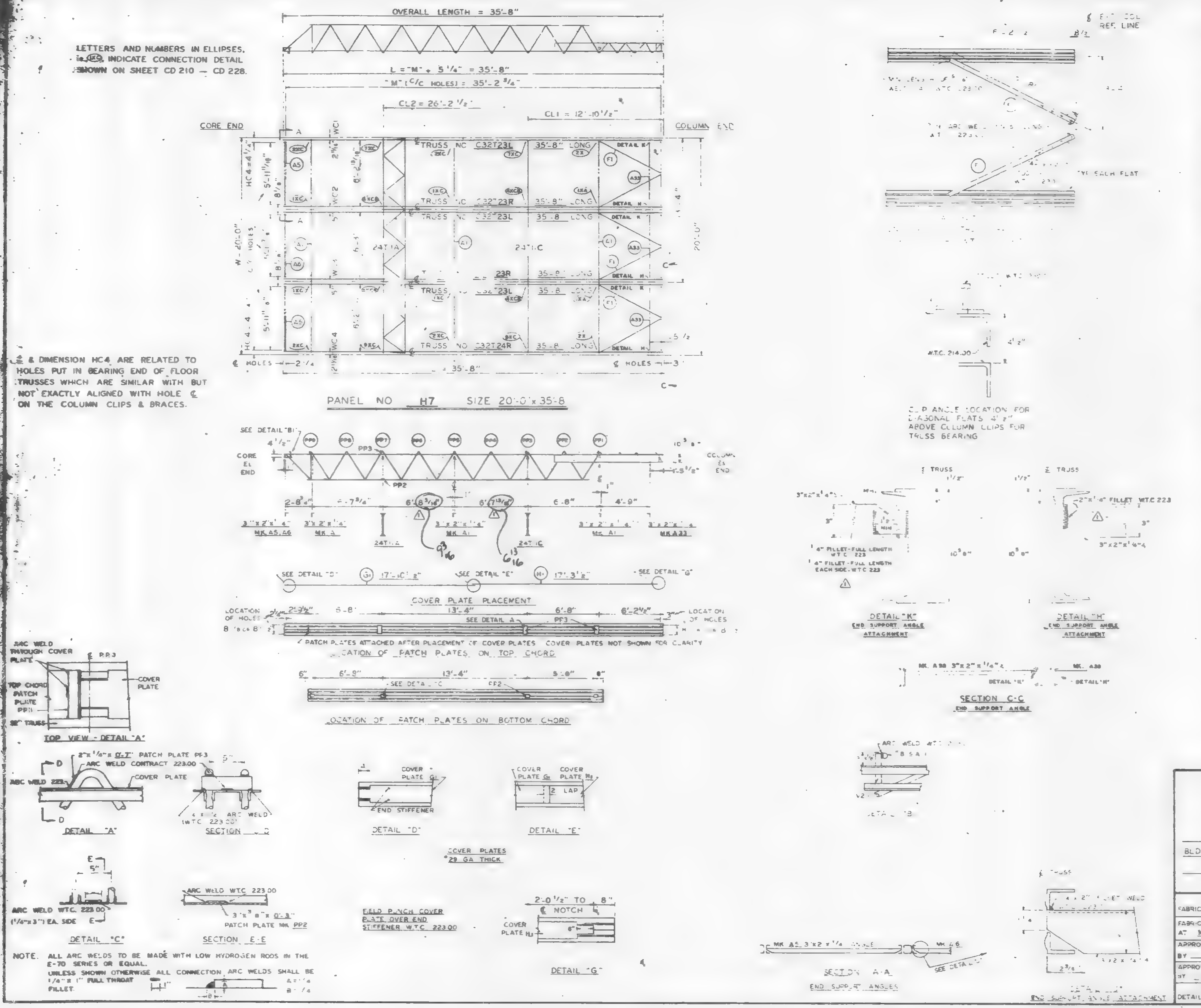

OVERALL LENGTH = 35'-8"
CORE END
COLUMN END
EXT COL REF. LINE
PANEL NO. H7 SIZE 20'-0" x 35'-8"
TRUSS NO. C32T23L 35'-8" LONG
TRUSS NO. C32T23R 35'-8" LONG
TRUSS NO. C32T24R 35'-8" LONG
24T11A
24T11C
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
REQUIRED MATERIAL PER PANEL
FLOOR TRUSSES
BRIDGING TRUSSES
3"x2"x1/4" ANGLE
PATCH PLATES
COVER PLATES
ANGLE CLIPS
SHEAR ANCHOR
CONNECTION BAR
CONNECTION PLATES
CLOSURE PLATE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION "C-C" END SUPPORT ANGLE
DETAIL "B1"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
COVER PLATES 28 GA. THICK
DETAIL "C"
SECTION E-E
DETAIL "F"
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
FLOOR PANEL DETAILS
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 25, 59, 92, (EAST & WEST)
PANEL H7 - 20'-0" x 35'-8"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO.
APPROVED FOR FABRICATION FOR P.O.N.Y.A.
APPROVED FOR FABRICATION BY FOR FABRICATOR
DRAWN BY
DATE JAN 2
CHECKED BY T.M.CHURA
FABRICATION CONT NO. W.T.C. 221
SHEET
FP - H7



OVERALL LENGTH
PANEL NO. HR2 SIZE 20'-0" x 35'-8"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS ABOVE COLUMN CLIPS FOR TRUSS BEARING.
FLOOR TRUSSES
BRIDGING TRUSSES
PATCH PLATES
COVER PLATES
ANGLE CLIPS
SHEAR ANCHOR
DIAGONAL FLATS
CONNECTION BAR
CONNECTION PLATES
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
SECTION E-E
DETAIL "G"
SECTION A-A
SECTION C-C
Ea Side
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FLOORS 25, 50, 92, (EAST & WEST)
PANEL HR2 · 20'-0" x 35'-8"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.
APPROVED FOR FABRICATION BY FOR FABRICATOR
DESIGN DRAWING NO.
PLATE
CHECKED BY
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-HR2



OVERALL LENGTH = 35'-8"
CORE END
COLUMN END
PANEL NO. H7 SIZE 20'-0" x 35'-8"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 22300
CLIP ANGLE LOCATION FOR DIAGONAL FLATS ABOVE COLUMN CLIPS FOR TRUSS BEARING
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C
DETAIL "B1"
SECTION D-D
DETAIL "D"
DETAIL "E"
SECTION E-E
DETAIL "G"
SECTION A-A END SUPPORT ANGLES
REQUIRED MATERIAL PER PANEL
MATERIAL MK PCS SIZE
FLOOR TRUSSES
BRIDGING TRUSSES
3"x2"x1/4" ANGLE
PATCH PLATES
COVER PLATES
ANGLE CLIPS
#8 SHEAR ANCHOR
DIAGONAL PLATS
CONNECTION BAR
CONNECTION PLATES
CLOSURE PLATE
REF DRWG
7-A84-15 & 16 7-22-68
7-A84-13.2
SA-24
7-A83-38
7-A81-22 10-4-68
7-A82-6 7-22-68
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG A - FLOORS 25, 59, 92, (EAST & WEST)
PANEL H7 - 20'-0" x 35'-8"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO.
PLATE
APPROVED FOR FABRICATION BY FOR PONYA
DATE
APPROVED FOR FABRICATION BY FOR FABRICATOR
DRAWN BY
DATE JAN 2, 1969
CHECKED BY T.M.
FABRICATION CONT NO W.T.C.
SHEET NO FP-H7



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T23L	3	C32T23L - 35'-8"	ST223L
	T23R	2	C32T23R - 35'-8"	ST 223L
	T24R	1	C32T24R - 35'-8"	ST 224R
BRIDGING TRUSSES	T11C	1	24 T11C - 19'-11"	ST211C
	T11A	1	24T11A - 19'-11"	ST211A
3" x 2" x 1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-11"	ST 403
	A5	2	3"x2"x1/4"x 6'-[illegible]	ST 403
	A6	1	3"x2"x1/4"x 6'-2"	ST 403
	A33	3	3"x2"x1/4"x 5'10 1/2"	ST 410
PATCH PLATES	PP3	12	2"x 1/4 x 0'-7"	ST 400
	PP2	12	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	G1	3	7" x 0.135" x 17'-10 1/2"	ST 303
	H1	3	7" x 0.135" x 17'-3 1/2"	ST 303
ANGLE CLIPS	[illegible]	12	2 1/2" x 1 1/2 x 1/4" x 6"	ST 400
#6 SHEAR ANCHOR	SA1	3	#6 REBAR x 0'-7"	ST 400
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
CONNECTION BAR	CB1	3	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	2	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .39" x 0'-9"	ST 400
	P7	2	6 1/2" x .50" x 1'-0"	ST 401
CLOSURE PLATE	PFN	3	3"x1/4" x 0'-2 3/8"	ST412

NO.	DATE	REVISION
1	2-4-69	AS NOTED

REF DRWG	
7-AB4-3	[illegible]
7-AB4-15 & 16	7-22-68
7-AB4-15 2	10-4-68
SA-124	10-11-68
7-AB3-38	10-4-68
7-AB1-22	10-4-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 25, 59, 92, (EAST & WEST)

PANEL H7 - 20'-0" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-38 PLATE

APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE

DRAWN BY [illegible] DATE JAN 8, 1969

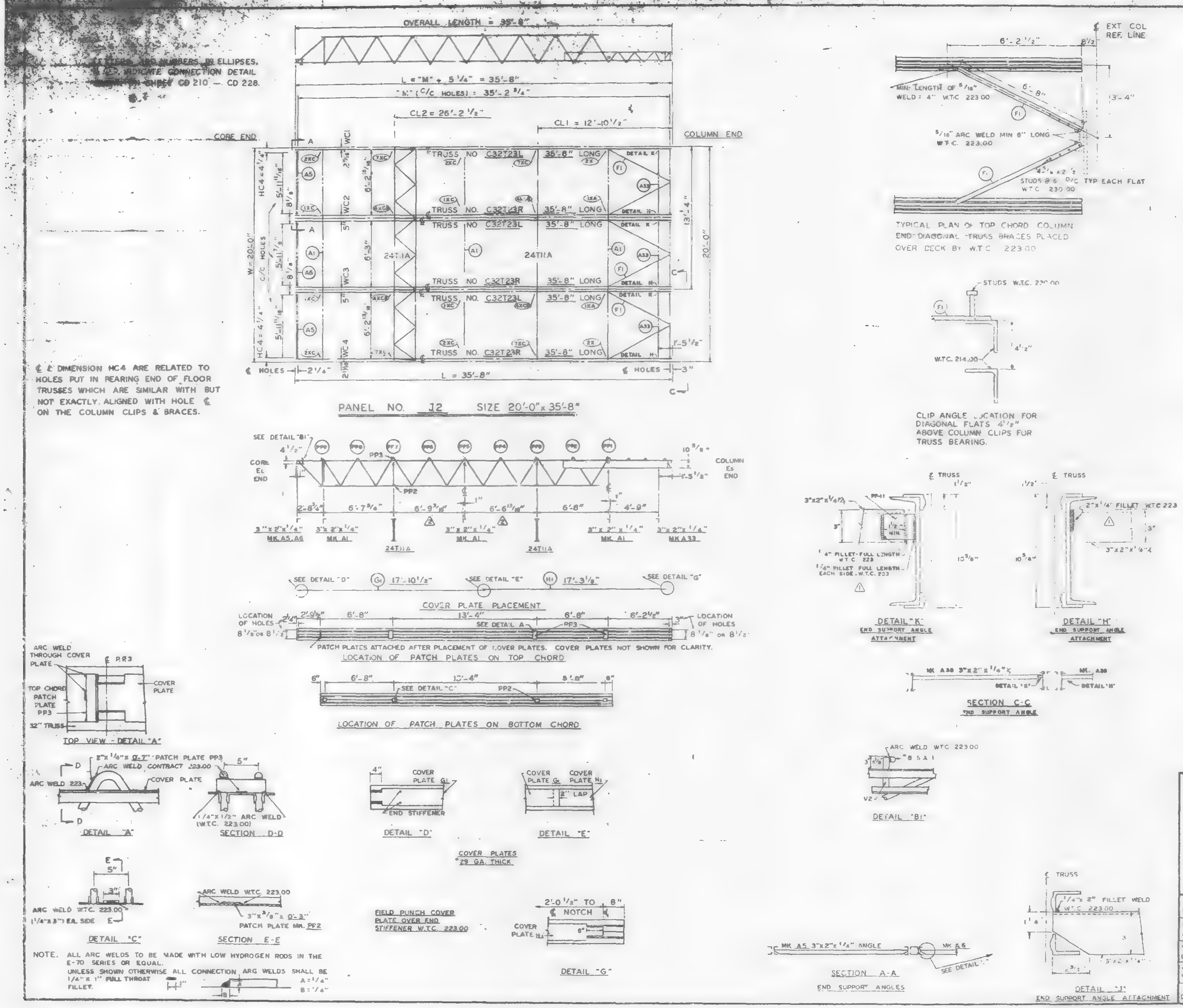
APPROVED FOR FABRICATION BY ______ DATE

CHECKED BY J. M CHURA DATE JAN 3, 1969

DETAILED BY A.C. WEBER

FABRICATION CONT NO W.T.C. 221

SHEET NO. FP-H7



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T23L	3	C32T23L - 35'-8"	ST223L
	T23R	3	C32T23R - 35'-8"	ST 223L
BRIDGING TRUSSES	T11A	2	2T11A - 19'-11"	BT211A
3"x2"x1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-11"	ST 403
	A5	2	3"x2"x1/4"x 6'-1 3/16"	ST 403
	A6	1	3"x2"x1/4"x 6'-2"	ST 403
	A33	3	3"x2"x1/4"x 5'-10 1/2"	ST 410
PATCH PLATES	PP3	16	2"x1/4"x 0'-7"	ST 400
	PP2	16	3"x3/8"x 0'-3"	ST 400
COVER PLATES	[illegible]	4	7"x.0135"x17'-10 1/2"	ST 303
	H	4	7"x.0135"x17'-3 1/2"	ST 303
ANGLE CLIPS	C2	2	2 1/2"x1 1/2"x1/4"x 6"	ST 400
#8 SHEAR ANCHOR	SA	4	#8 REBAR x [illegible]	ST 400
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x 6'-8"	ST 402
CONNECTION BAR	CB1	6	[illegible]	ST 400
CONNECTION PLATES	P1	4	3 1/2"x3/8"x 0'-6 1/2"	ST 400
	P2	4	4 1/2"x.39"x 0'-9"	ST 400
	P3	4	4 1/2"x.39"x 1'-0"	ST 400
CLOSURE PLATE	PF11	3	3"x1/4"x 0'-2 3/8"	ST412

NO.	DATE	REVISION	BY
3	7-7-69	AS NOTED	GDC
2	3-11-69	AS NOTED	GDC
1	2-4-69	AS NOTED	GDC

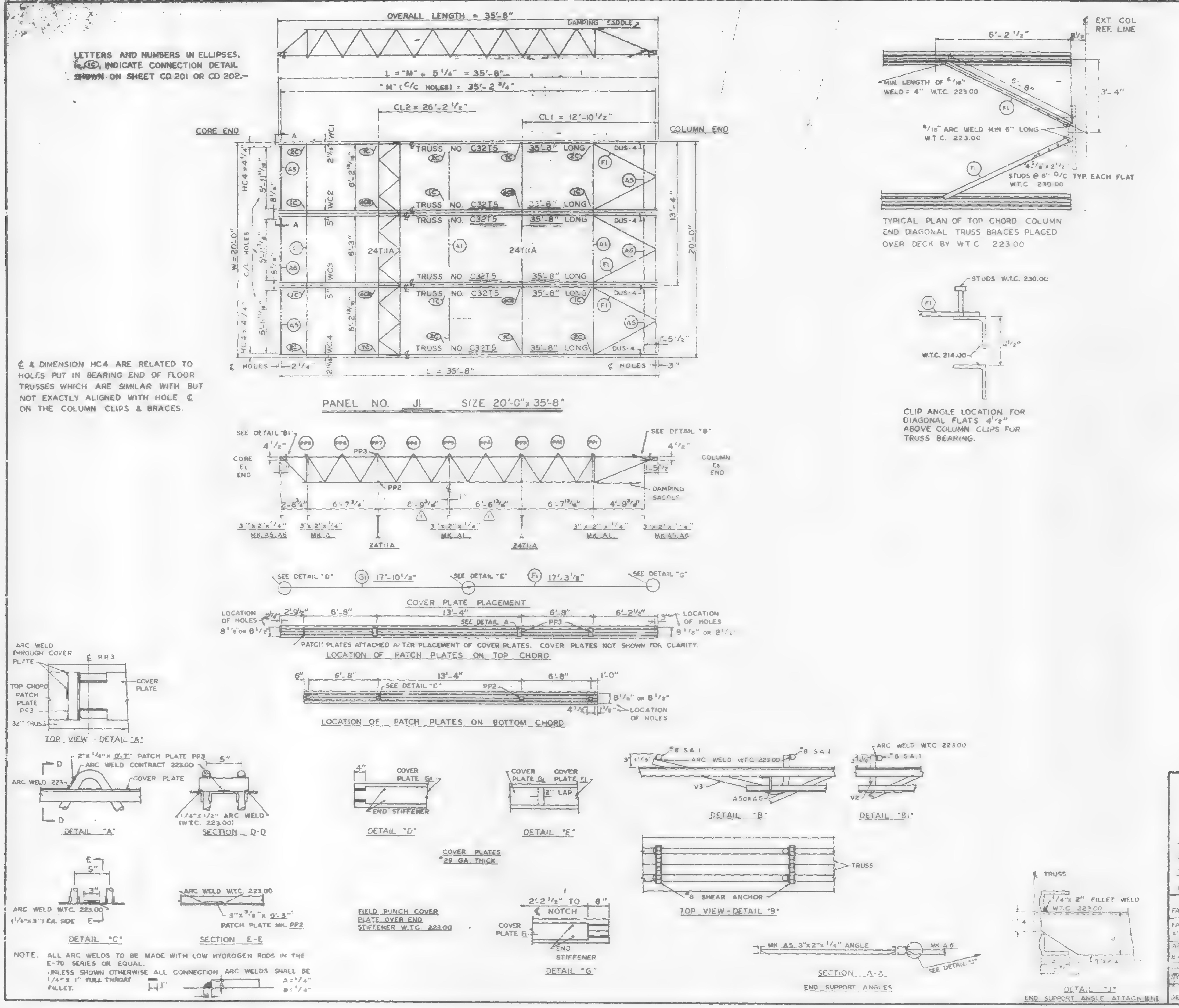
REF. DRWG.

[illegible] A84-3	10-15-68
7-A84-5 & 6	7-22-68
7-A84-15 c	10-4-68
SA 24	10-6-69
7-A93-43	10-4-68
7-A81-22	10-4-68
7-A82-6	7-22-69

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N. Y. C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 25 59, 92, (EAST & WEST)
PANEL J2 20'-0" x 35'-8"
BLDG. B FLOORS 25, 59 & 92 (NORTH & SOUTH) (2)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-A83-[illegible] PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE JAN 2, 1969
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE JAN 2, 1969
DETAILED BY A.C. SEBER
FABRICATION CONT NO. W.T.C. 221
SHEET NO FP-J2



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	6	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T11A	2	2T11A - 19'-11"	BT211A
3"x2"x1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-11"	ST403
	A5	4	3"x2"x1/4"x 6'-1 13/16"	ST403
	A6	2	3"x2"x1/4"x 6'-[illegible]	ST403
DIAGONAL FLATS	F	6	1 1/2"x 5/8"x 6'-8"	ST402
PATCH PLATES	PP3	16	2"x 1/4"x 0'-7"	ST400
	PP2	16	3"x 3/8"x 0'-3"	ST400
COVER PLATES	G1	4	[illegible] x 0.35" x 7'-0 1/2"	ST303
	F1	4	7' x 0.35 x 7'-3 1/2"	ST303
ANGLE CLIPS	C2	2	2 1/2"x 1 1/2"x 1/4"x 6"	ST400
#8 SHEAR ANCHOR	SA1	[illegible]	#8 REBAR x [illegible] 7	ST400
DAMPING SADDLE	DUS 4	[illegible]	3 [illegible] x 3 [illegible] 6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ∅ x [illegible] 3"	ST400
CONNECTION PLATES	F1	6	3 1/2"x 3/8"x 0'-6 1/2"	ST400
	P2	4	4 1/2"x .39"x 0'-9"	ST400
	P3	4	4 1/2"x .39"x 1'-0	ST400

NO.	DATE	REVISION	BY
2	6-23-69	AS NOTED	G.D.C.
	2-21-69	AS NOTED	G.D.C.

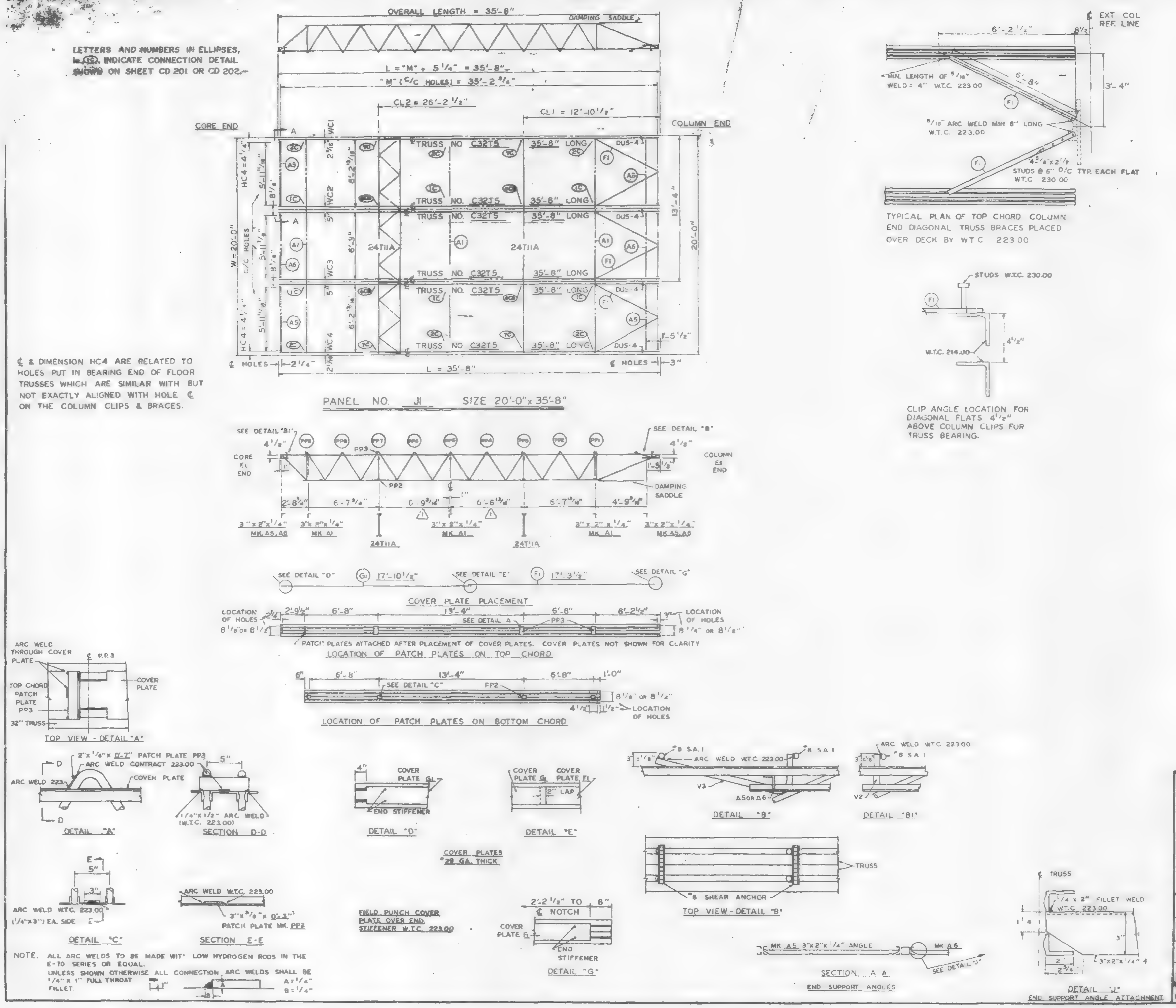
REF. DRWG.	
7-AB4-3,1	[illegible]-3-68
7-AB4-5 & 16	7-22-68
7-AB4-39, 41	7-22-68
SA-24	[illegible]-68
7-AB3-[illegible]	[illegible]-68
7-AB[illegible] & [illegible]	7-22-68
7-AB[illegible] 6	7-22-68
AB4-42 & 3	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-24, 26-40, 50-58, 60-66, 68-7[illegible], 84-91 & 93-106 (EAST & WEST) PANEL J1 - 20' x 35'-8"
BLDG. B FLOORS 14-24, 26-40, 50-58, 60-74, 84-91, 93-106 (NORTH & SOUTH)

FABRICATION BY LA[illegible]EDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-19 PLATE
APPROVED FOR FABRICATION BY [signature] FOR PONYA DATE 1/2/70
DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE APRIL 10, 1968
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. [illegible] 221
SHEET NO. FP-J1

LETTERS AND NUMBERS IN ELLIPSES, (1C) INDICATE CONNECTION DETAIL SHOWN ON SHEET CD 201 OR CD 202.



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET. A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	REF DRWG
FLOOR TRUSSES	T5	6	C32T5 - 35'-8"	ST298
BRIDGING TRUSSES	T11A	2	2T11A - 19'-11"	BT211A
3" x 2" x 1/4" ANGLE	A1	3	3" x 2" x 1/4" x 19'-11"	ST403
	A5	4	3" x 2" x 1/4" x 6'-1 13/16"	ST403
	A6	2	3" x 2" x 1/4" x 6'-2"	ST403
DIAGONAL FLATS	F1	6	4 1/2" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP3	16	2" x 1/4" x 0'-7"	ST 400
	PP2	16	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	G1	4	7" x 0.135" x 17'-10 1/2"	ST 303
	F1	4	7" x 0.135" x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	12	2 1/2 x 1 1/2 x 1/4" x 6"	ST 400
#8 SHEAR ANCHOR	SA1	12	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS-4	4	2 1/2" x 3 1/2" x 3/8" x 3' 6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	6	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-23-69	AS NOTED	G.B.C.
1	2-21-69	AS NOTED	G.D.C.

(2) REF DRWG

7-AB4-3.1	1-3-68
7-AB4-15 & 16	7-22-68
7-AB4-39-41	7-22-68
SA-124	1-8-69
7-AB3-2	1-3-68
7-AB1-11 & 12	[illegible]
7-AB2-6	7-22-68
7-AB4-42 & 3	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE [illegible] OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-24, 26-40, 50-58, 60-66, 68-74, [illegible] 91 & 93-106 (EAST & WEST) PANEL J1 - 20'-0" x 35'-8"

(1) BLDG. B FLOORS 14-24, 26-40, 50-58, 60-74, 84-[illegible], 93-[illegible] (NORTH & SOUTH)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-19

PLATE

APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE [illegible]

DRAWN BY [illegible] DATE APRIL 10, 1968

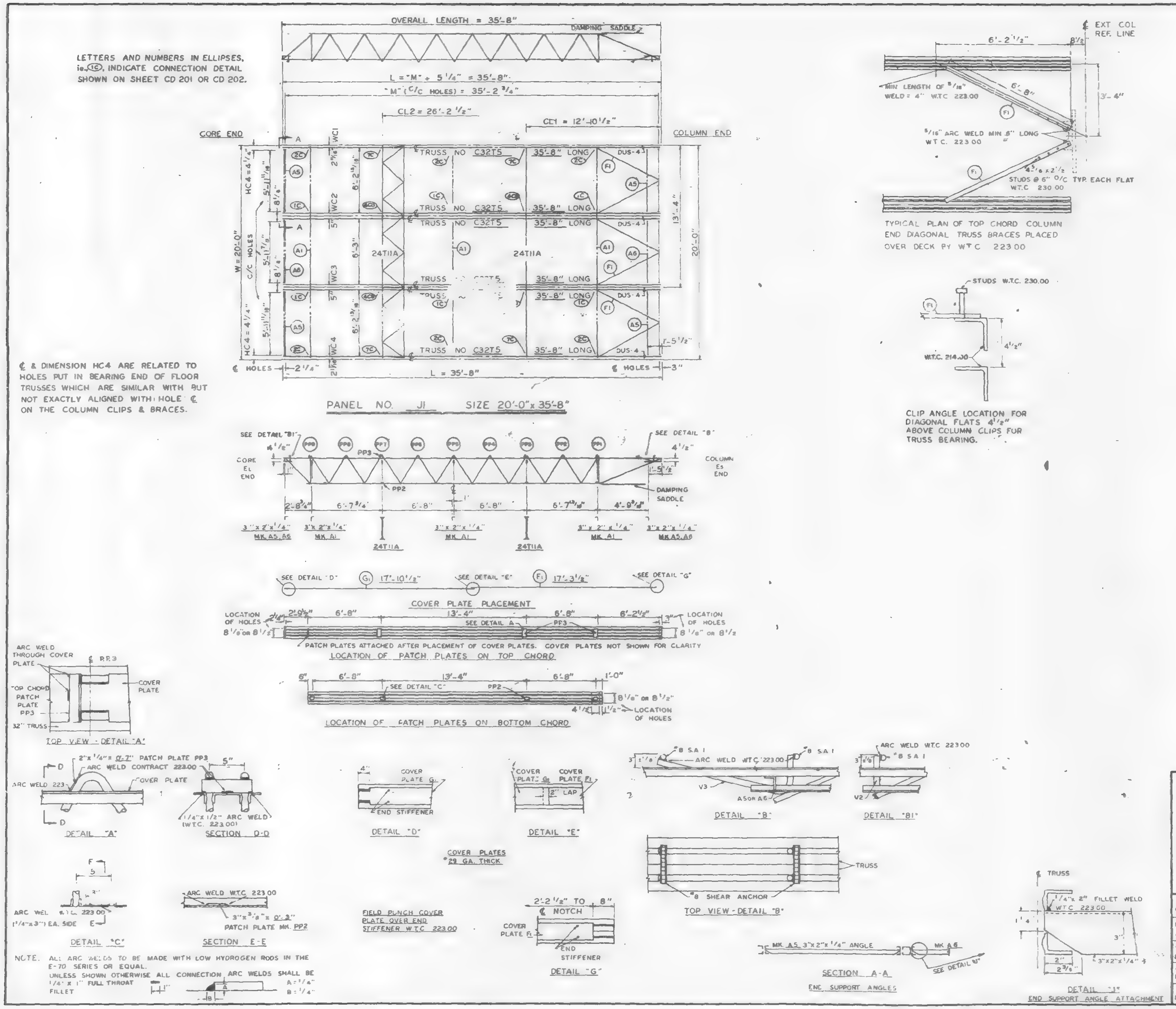
APPROVED FOR FABRICATION BY [illegible] FABRICATOR DATE

LACLEDE STEEL CO.

CHECKED BY T.M. CHURA DATE APRIL 10, 1968

DETAILED BY A.C. WEBER

FABRICATION CONT. NO. W.T.C. 221



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	6	C32T5 - 35' 8"	ST205
BRIDGING TRUSSES	T11A	2	2T11A - 19'-11"	BT211A
3"x2"x1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-11"	ST 403
	A5	4	3"x2"x1/4"x 6'-1 13/16"	ST 403
	A6	2	3"x2"x1/4"x 6'-[illegible]"	ST 403
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8	ST 402
PATCH PLATES	PP3	18	2"x 1/4"x 0'-7"	ST 400
	PP2	18	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	G1	4	7"x 0.135"x 17'-10 1/2"	ST 303
	F1	4	7"x 0.135"x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	12	2 1/2"x 1 1/2"x 1/4"x 6"	ST 400
#8 SHEAR ANCHOR	SA1	12	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS-4	4	[illegible]	ST298
CONNECTION BAR	CB1	4	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	6	3 1/2"x 3/8"x 0'-[illegible]"	ST 400
	P2	4	4 1/2"x .39"x 0'-9"	ST 400
	P3	4	4 1/2"x .39"x 1'-0"	ST 400

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-24, 26-40, 50-58, 60-66, 68-74, 84-91 & 93-106 (EAST & WEST) PANEL J1 - 20'-0" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINIOIS

DESIGN DRAWING NO 7-AB3-19 5-10-68 PLATE

APPROVED FOR FABRICATION BY ____ FOR PONYA DATE 5/16/68

DRAWN BY [illegible] DATE APRIL 10, 1968

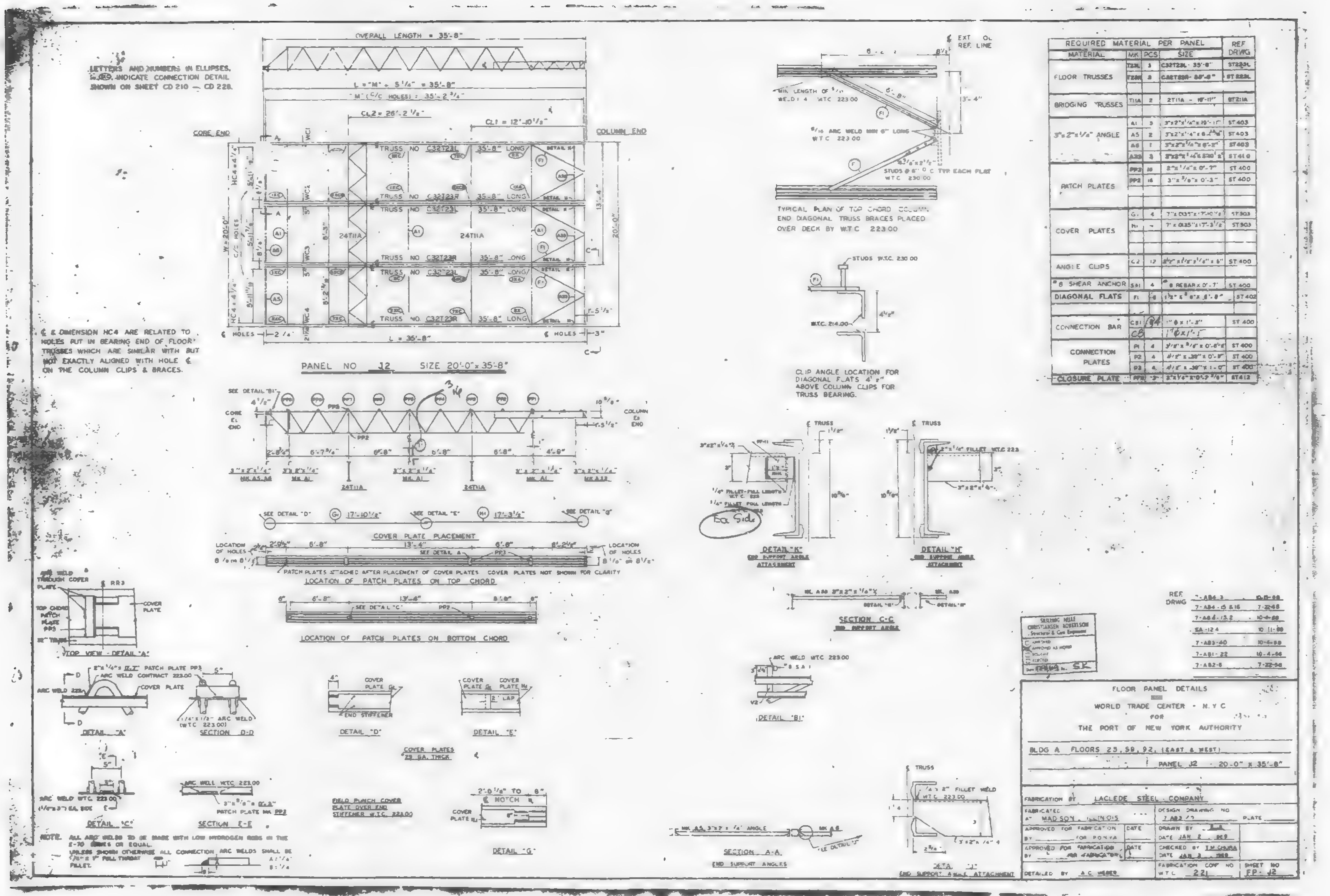
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE

CHECKED BY T.M. CHURA DATE APRIL 10, 1968

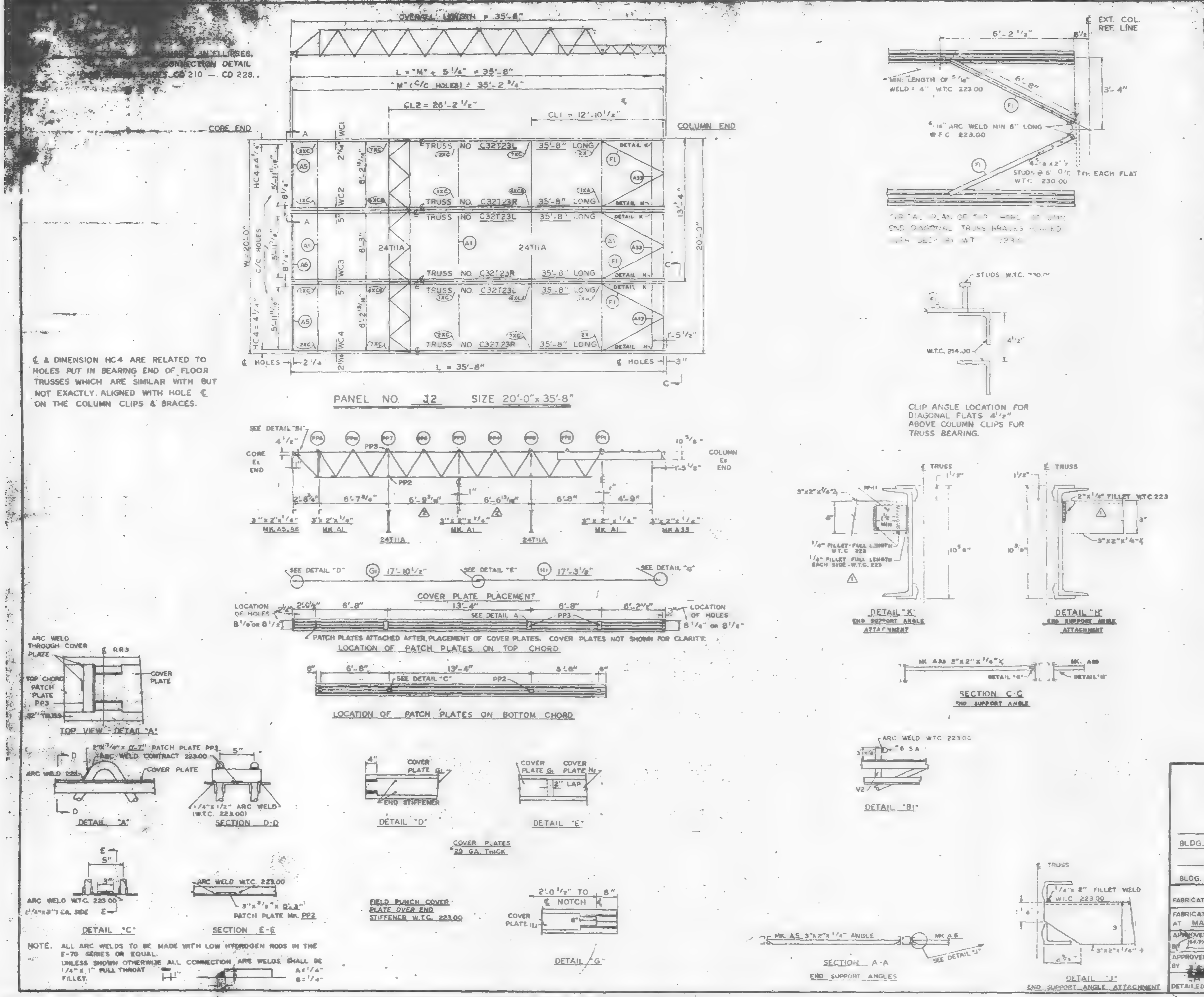
DETAILED BY A C WEBER

FABRICATION CONT NO W.T.C. 221

SHEET NO FP - J1



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T23L	3	C32T23L - 35'-8"	ST223L
	T23R	2	C32T23R - 35'-8"	ST223L
BRIDGING TRUSSES	T11A	2	2T11A - 19'-11"	ST211A
3"x2"x1/4" ANGLE	A1	3	3"x2"x1/4"x19'-11"	ST403
	A5	2	[illegible]	ST403
	A6	1	[illegible]	ST403
	A33	3	[illegible]	ST410
PATCH PLATES	PP3	16	2"x1/4"x0'-7"	ST400
	PP2	16	3"x3/8"x0'-3"	ST400
COVER PLATES	G1	4	7"x 0.135"x17'-10 1/2"	ST903
	H1	[illegible]	7"x 0.135"x17'-3 1/2"	ST903
ANGLE CLIPS	C2	12	[illegible]	ST400
#8 SHEAR ANCHOR	SA1	4	#8 REBAR x 0'-7"	ST400
DIAGONAL FLATS	F1	[illegible]	[illegible]	ST402
CONNECTION BAR	CB1	[illegible]	1" Ø x 1'-3"	ST400
	CB		1" Ø x 1'-1"	
CONNECTION PLATES	P1	4	[illegible]	ST400
	P2	4	[illegible]	ST400
	P3	4	[illegible]	ST400
CLOSURE PLATE	[illegible]	[illegible]	[illegible]	ST412



REQUIRED MATERIAL PER PANEL

MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T23L	3	C32T23L - 35'-8"	[illegible]
	T23R	3	C32T23R - 35'-8"	[illegible]
BRIDGING TRUSSES	T11A	2	2T11A - 19'-11"	[illegible]
3"x2"x1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-11"	ST 403
	A5	2	3"x2"x1/4"x 6'-1 11/16"	ST 403
	A6	1	3"x2"x1/4"x 6'-2"	ST 403
	A33	3	3"x2"x1/4"x 5'-10 1/2"	ST 410
PATCH PLATES	PP3	18	2"x1/4"x 0'-7"	ST 400
	PP2	16	3"x3/8"x 0'-3"	ST 400
COVER PLATES	G1	4	7"x.0135"x 17'-10 1/2"	ST 303
	H1	4	7"x.0135"x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	12	2 1/2"x 1 1/2"x 1/4"x 6"	ST 400
#8 SHEAR ANCHOR	SA1	4	#8 REBAR x 0'-7"	ST 400
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 402
CONNECTION BAR	CB1	6	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	4	4 1/2"x .30"x 0'-9"	ST 400
	P3	4	4 1/2"x .30"x 1'-0"	ST 400
CLOSURE PLATE	PF11	3	3"x1/4"x 0'-2 3/8"	ST 412

NO.	DATE	REVISION	BY
3	7-7-69	AS NOTED	G.D.C.
2	3-11-69	AS NOTED	G.D.C.
1	2-4-69	AS NOTED	G.D.C.

REF. DRWG.

7-A84-[illegible]	10-15-68
7-A84-15 & 16	7-22-68
7-A84-15 2	10-4-68
[illegible]	10-6-69
7-A83-4	10-4-68
7-A81-22	10-4-68
7-A32-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 59, 92 (EAST & WEST)

PANEL [illegible] x 35'-8"

BLDG. B FLOORS 25, 59 & 92 (NORTH & SOUTH) 3

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-A83-[illegible] PLATE

APPROVED FOR FABRICATION BY [signature] FOR P.O.N.Y.A. DATE 1/12/70

DRAWN BY [illegible] DATE JAN [illegible]

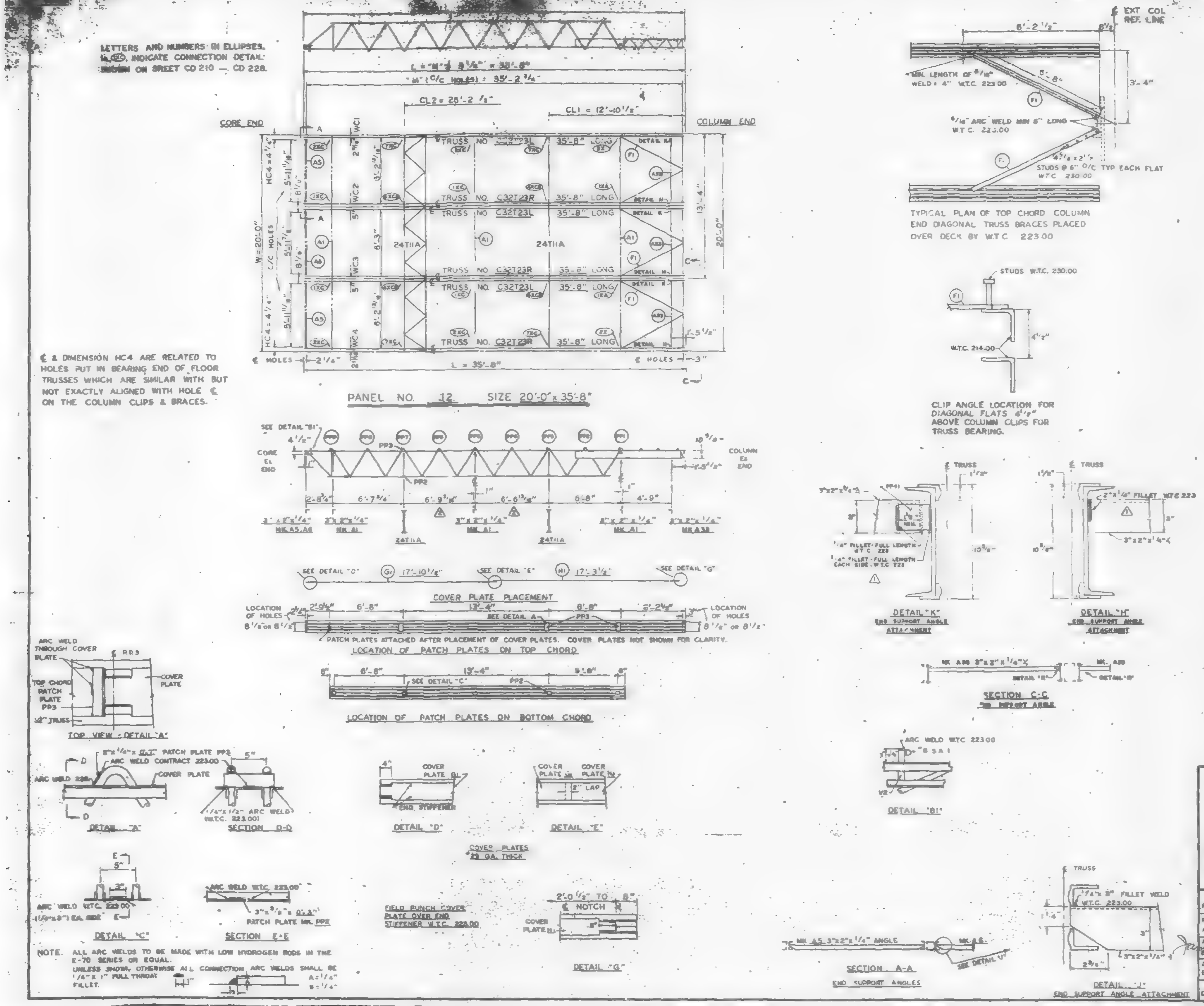
APPROVED FOR FABRICATION BY FOR FABRICATOR LACLEDE STEEL CO. DATE

CHECKED BY T.J. CHURA DATE JAN [illegible] 1969

DETAILED BY A C WEBER

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FP 12



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T23L	3	C32T23L - 35'-8"	ST223L
	T23R	3	C32T23R - 35'-8"	ST223R
BRIDGING TRUSSES	T11A	2	2T11A - 19'-11"	ST211A
3"x 2"x 1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-11"	ST 403
	A5	2	3"x2"x1/4"x 6'-[illegible]"	ST 403
	A6	1	3"x2"x1/4"x 6'-2"	ST 403
	A32	3	3"x2"x1/4"x 3'-10 1/2"	ST 410
PATCH PLATES	PP3	16	2"x 1/4"x 0'-7"	ST 400
	PP2	16	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	G1	4	7"x 0.135"x 17'-10 1/2"	ST 303
	H1	4	7"x 0.135"x 17'-3 1/2"	ST 303
ANGLE CLIPS	[illegible]	[illegible]	[illegible]	ST 400
#8 SHEAR ANCHOR	SA1	4	#8 REBAR x 0'-7"	ST 400
DIAGONAL FLATS	F1	8	1 1/2" x 5/8" x 8'-8"	ST 402
CONNECTION BAR	CB1	8	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400
CLOSURE PLATE	PP11	3	3"x 1/4" x 0'-2 3/8"	ST 412

NO.	DATE	REVISION	BY
2	3-11-69	AS NOTED	G.D.C.
1	2-4-69	AS NOTED	G.D.C.

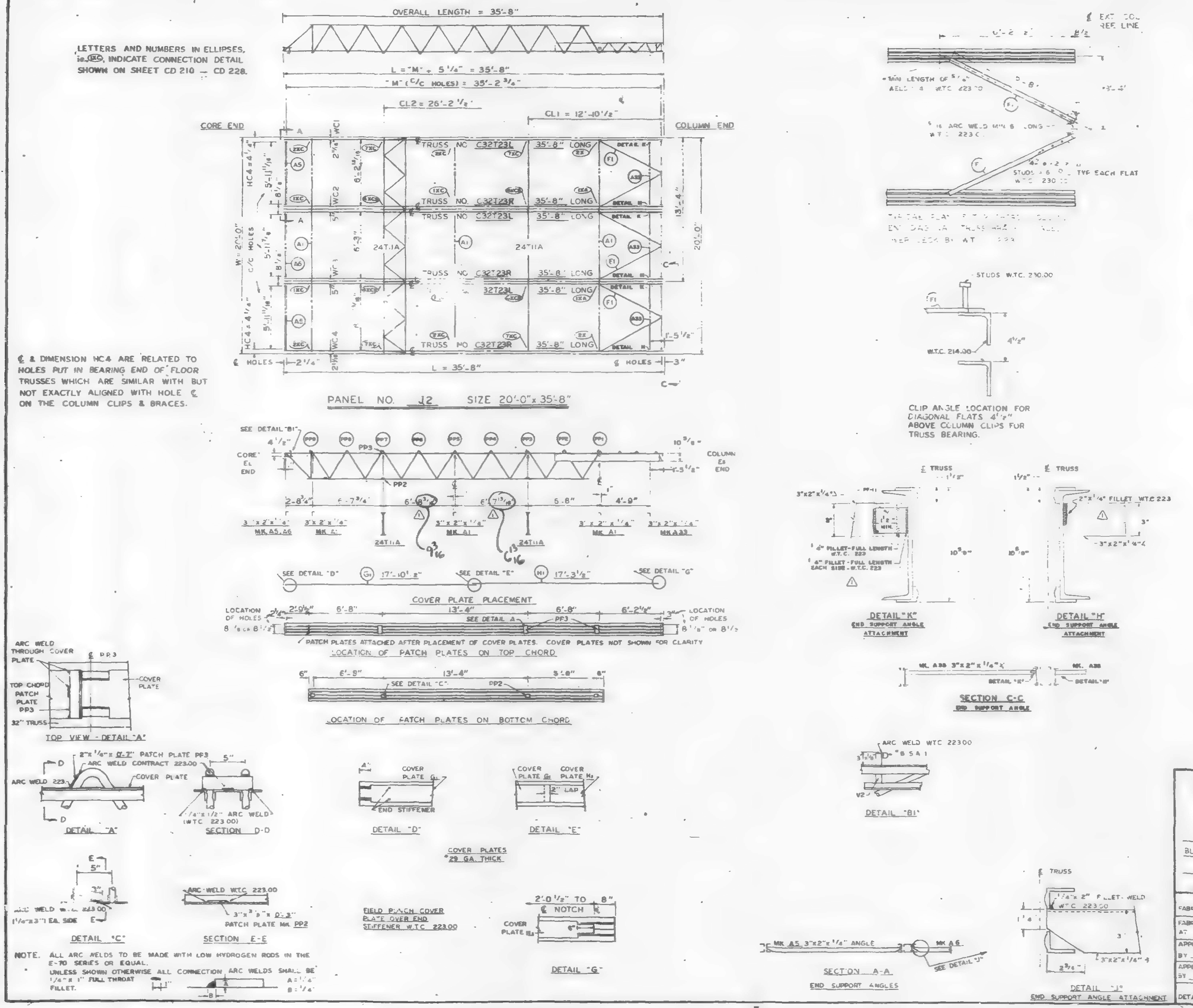
REF. DRWG.	
7-AB4-3	10-[illegible]-68
7-AB4-15 & 16	7-2-68
7-AB4-15.2	10-4-68
SA-124	10-11-68
7-AB3-40	10-4-68
7-AB1-22	10-4-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25, 59, 62, (EAST & WEST)
PANEL J2 - 20'-0" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-[illegible] PLATE
APPROVED FOR FABRICATION [signature] FOR P.O.N.Y.A. DATE 3/24/69
DRAWN BY [illegible] DATE JAN. 2, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHUBA DATE JAN. 3, 1969
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-J2

LETTERS AND NUMBERS IN ELLIPSES, ie. (IXC), INDICATE CONNECTION DETAIL SHOWN ON SHEET CD 210 – CD 228.



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T23L	3	C32T23L - 35'-8"	ST223L
	T23R	3	C32T23R - 35'-8"	ST 223L
BRIDGING TRUSSES	T11A	2	2T11A ~ 19'-11"	ST211A
3" x 2" x 1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-11"	ST 403
	A5	2	3"x2"x1/4"x 6'-1 13/16"	ST 403
	A6	1	3"x2"x1/4"x 6'-2"	ST 403
	A33	3	3"x2"x1/4"x 5'-10 1/2"	ST 410
PATCH PLATES	PP3	16	2"x 1/8"x 0'-7"	ST 400
	PP2	16	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	G	4	7"x 0.135"x 17'-10 1/2"	ST 303
	H	4	7"x 0.135"x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	12	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
# 8 SHEAR ANCHOR	SA1	4	# 8 REBAR x 0'-7	ST 400
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
CONNECTION BAR	CB1	6	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400
CLOSURE PLATE	PFR	3	3"x 1/4" x 0'-2 5/8"	ST412

NO	DATE	REVISION	BY
1	2-4-69	AS NOTED	G.D.C.

REF. DRAG	
7-AB4-3	10-8-68
7-AB4-15 & 16	7-22-68
7-AB4-15.2	10-4-68
SA-124	10-11-68
7-AB3-40	10-4-68
7-AB1-22	10-4-68
7-AB2-6	7-22-68

2/28/69 SK

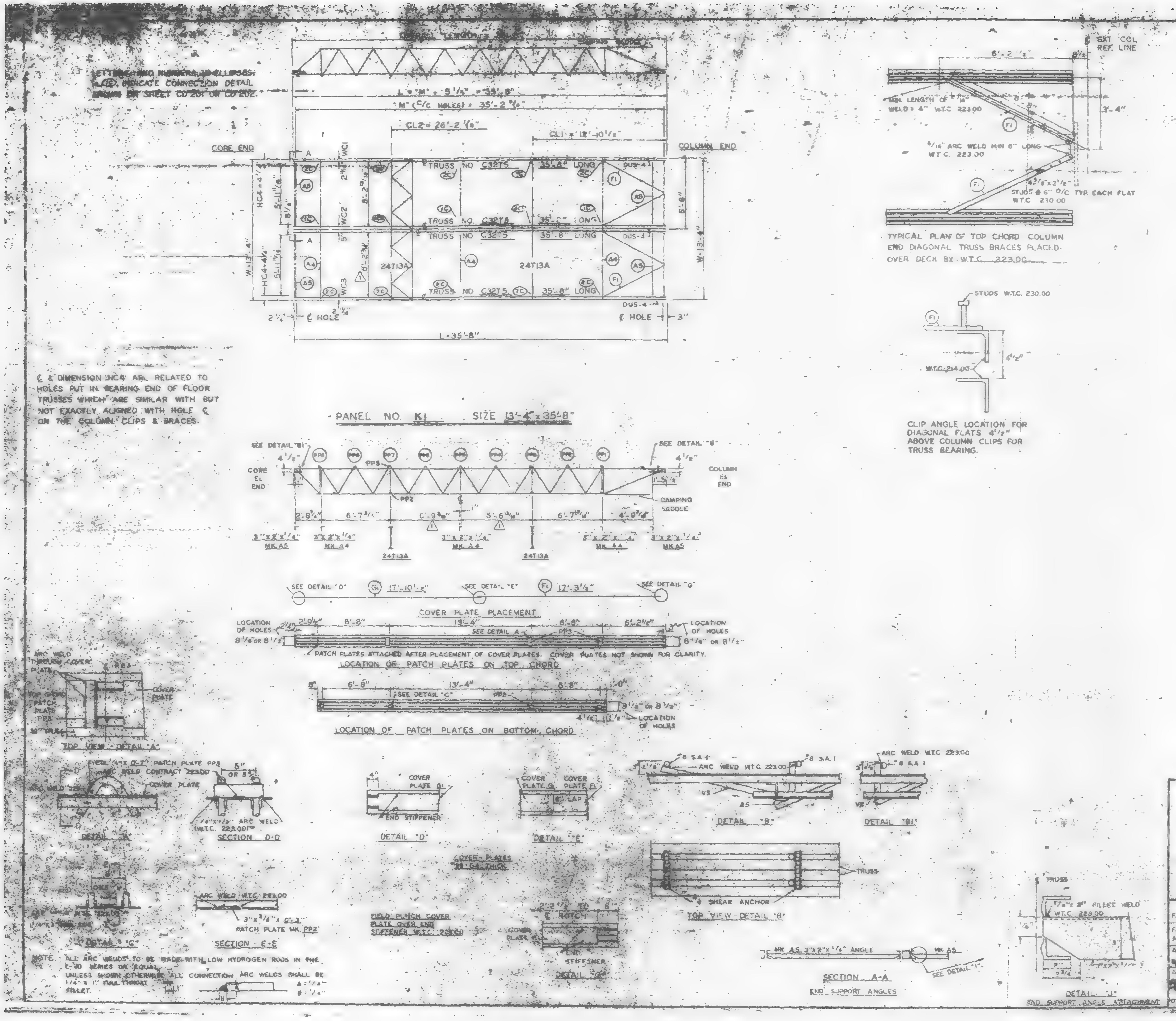
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25, 59, 92, (EAST & WEST)

PANEL J2 - 20'-0" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINIOIS	DESIGN DRAWING NO. 7-AB3-43 PLATE
APPROVED FOR FABRICATION BY ____ FOR PONYA — DATE	DRAWN BY R.R. DATE JAN 2, 1969
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR — DATE	CHECKED BY T.M. CHURA DATE JAN 3, 1969
DETAILED BY A.C. WEBER	FABRICATION CONT. NO. W.T.C. 221 — SHEET NO. FP-J2



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	4	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T13A	2	2T134 -13-3"	ST213A
3"x2"x1/4" ANGLE	A4	3	3"x2"x1/4"x13'-3"	ST403
	A5	4	3"x2"x1/4"x6'-1 13/16"	ST403
DIAGONAL FLATS	F	4	2 x 5/8"x 6-8"	ST402
PATCH PLATES	PP3	8	2"x 1/4"x 0'-7"	ST400
	PP2	8	3"x 3/8"x 0'-3"	ST400
COVER PLATES	G1	2	7"x 035 x 17'-10 1/2"	ST303
	F	2	[illegible]	ST303
[illegible]	[illegible]	8	[illegible]	ST400
[illegible]	[illegible]	6	[illegible]	ST400
[illegible]	[illegible]	4	[illegible]	[illegible]
CONNECTION BAR	[illegible]	2	[illegible]	ST400
CONNECTION PLATES	[illegible]	3	[illegible]	ST400
	[illegible]	3	[illegible]	ST400
	[illegible]	2	[illegible]	ST400

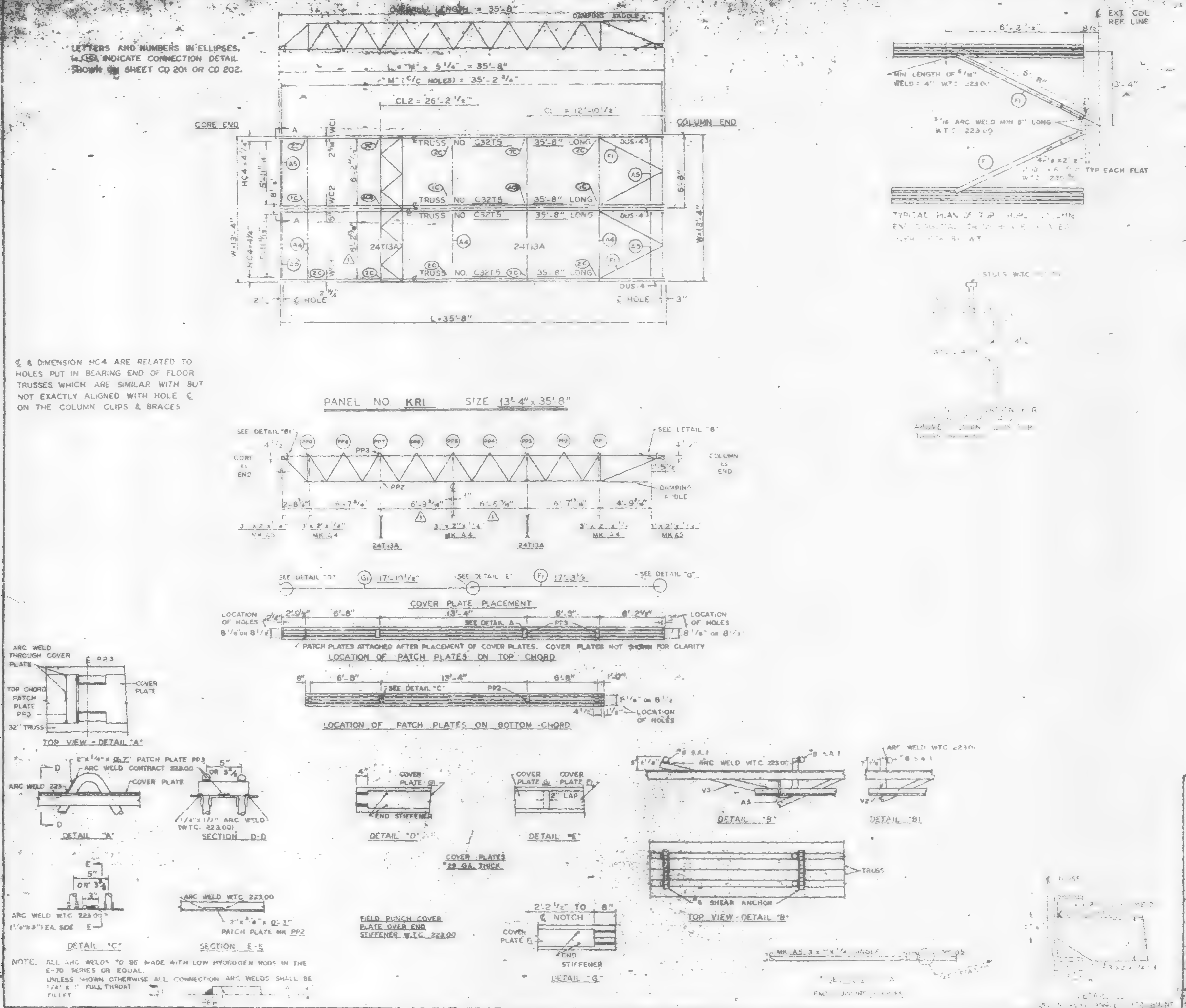
NO	DATE	REVISION	
2	5-23-69	AS NOTED	G.S.C.
1	3-11-69	AS NOTED	G.S.C.

REF. DWG.	
7-AB3-20	7-22-68
7-AB3-[illegible]	[illegible]
7-AB3-5 & 6	7-22-68
7-AB4-32-41	7-22-68
[illegible]	1-5-69
7-AB3-[illegible]	[illegible]
7-AB1 11 & 12	7-22-68
7-AB2 8	7-22-68
7-AB4 42 & 3	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45-49(WEST), 80-83(EAST)
PANEL K1 13'-4" x 35'-8"
BLDG. B FLOORS 45-49(SOUTH) 80-83(NORTH)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINIOIS
DESIGN DRAWING NO. 7 AB3-20 PLATE
APPROVED FOR FABRICATION James W. [illegible] P.N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE 1-30-69
APPROVED FOR FABRICATION [illegible] DATE
CHECKED BY T.M. CHURA DATE 1-30-69
DETAILED BY LACLEDE STEEL CO.
FABRICATION CONT. NO W.T.C. 221
SHEET NO. FP-K1



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	4	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	13A	2	2T13A - 13'-3"	ST213A
3" x 2" x 1/4" ANGLE	A4	3	3" x 2" x 1/4" x 13'-3"	ST403
	A5	4	3" x 2" x 1/4" x [illegible]	ST403
DIAGONAL FLATS	F1	8	[illegible] x 6'-8	ST402
PATCH PLATES	PP3	8	2" x 1/4" x 0'-7"	ST400
	PP2	8	3" x 3/8" x 0'-3"	ST403
COVER PLATES	G1	2	7" x .0135" x 17'-10 1/2"	ST303
	F1	2	7" x .0135" x 17'-3 1/2"	ST303
ANGLE CLIPS	C2	8	2 1/2" x 1 1/2" x 1/4" x 6"	ST400
#8 SHEAR ANCHOR	SA1	6	#8 REBAR x 0'-7"	ST400
[illegible] ANGLE	[illegible]	2	[illegible]	ST298
CONNECTION BAR	CB1	2	1" Φ x 1'-3"	ST400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST400
	P2	2	4 1/2" x .30" x 0'-9"	ST400
	P3	2	4 1/8" x .30" x 1'-0"	ST400

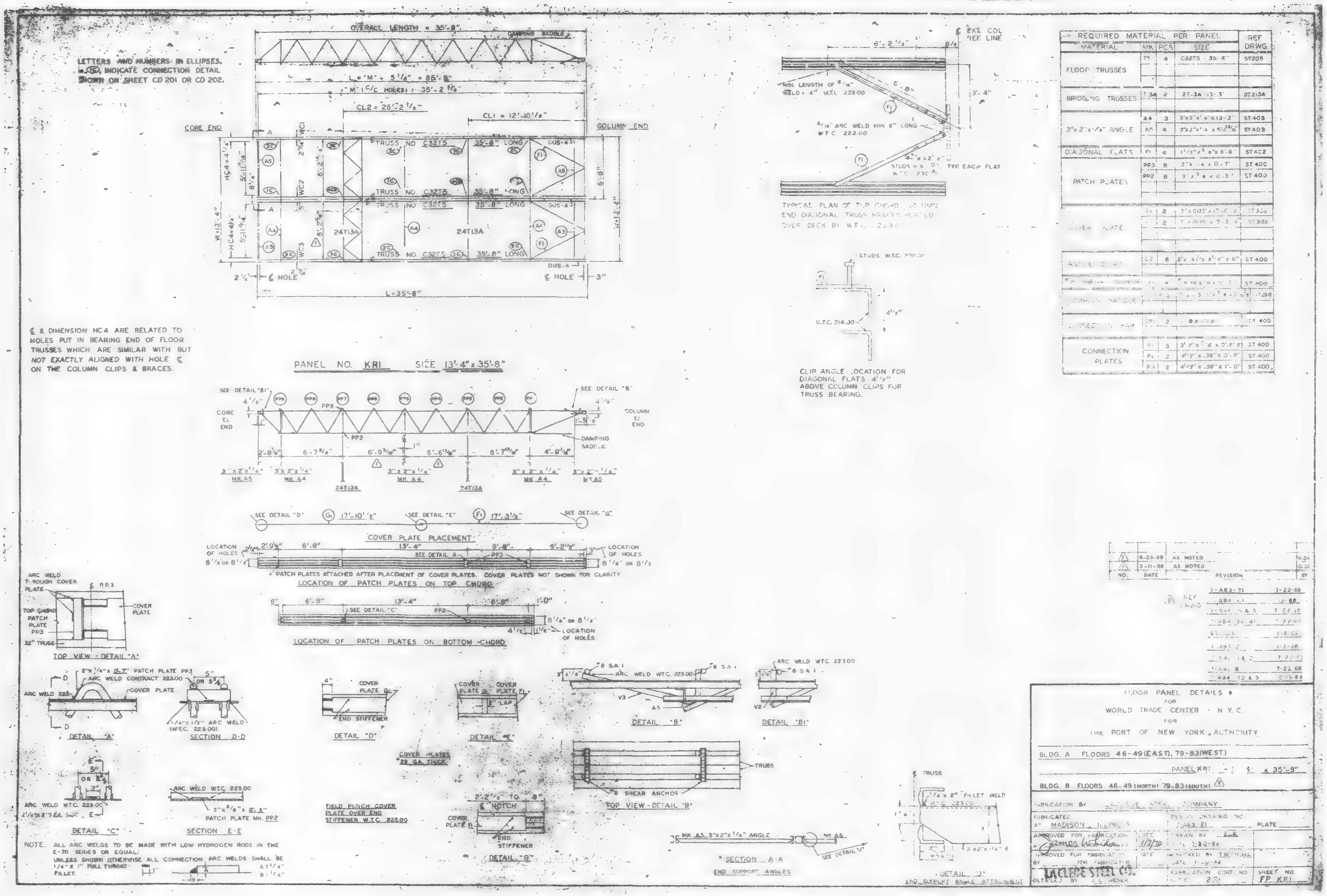
NO.	DATE	REVISION	
2	6-23-69	AS NOTED	
1	3-11-69	AS NOTED	

REF DRWG.: 7-AB3-21, 7-AB4-[illegible], 7-AB4-[illegible], 7-AB4-[illegible], SA-24 (1-6-69), 7-AB3-2[illegible], 7-AB1-[illegible] (7-22-68), 7-AB2-8 (7-22-68), 7-AB4-[illegible]

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 46-49 (EAST), 79-83 (WEST)
PANEL KRI 13'-4" x 35'-8"
BLDG. B FLOORS 46-49 (NORTH) 79-83 [illegible]

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING 7-AB3-21
APPROVED FOR FABRICATION BY ___ FOR P.O.N.Y.A. DATE [illegible]
DRAWN BY [illegible] DATE 1-13-69
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR DATE
CHECKED BY T.M.[illegible] DATE 1-[illegible]-69
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT. [illegible] W.T.C. 221 SHEET NO. KRI



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	4	C32T5 · 35'-8"	ST205
BRIDGING TRUSSES	T3A	2	2T.3A -13-3'	BT213A
3"x 2"x 1/4" ANGLE	A4	3	3"x2"x1/4"x13-3"	ST 403
	A5	4	3"x2"x1/4"x5'-1 13/16"	ST 403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x 6'-8"	ST 402
PATCH PLATES	PP3	8	2"x 1/4 x 0-7'	ST 400
	PP2	8	3"x 3/8 x 0-3"	ST 400
COVER PLATE	[illegible]	2	7"x 0135"x 17-10 1/2	ST 303
	[illegible]	2	7"x 0135 x 7-3 1/2	ST 303
ANGLE CLIPS	C2	8	2 1/2 x 1 1/2 x 1/4" x 6"	ST 400
[illegible]	[illegible]	6	[illegible]	ST 400
DAMPING SADDLE	[illegible]	2	[illegible]	[illegible]298
CONNECTION BAR	[illegible]	2	[illegible]	ST 400
CONNECTION PLATES	P1	3	3 1/2"x 5/8 x 0'-6 1/2	ST 400
	P2	2	4 1/2" x .39" x 0'-9"	ST 400
	P3	2	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-23-69	AS NOTED	
1	3-11-69	AS NOTED	

FLOOR PANEL DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 46-49 (EAST), 79-83 (WEST)

PANEL KR1 35'-8"

BLDG. B FLOORS 46-49 (NORTH) 79-83 (SOUTH)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-A83-21 PLATE

APPROVED FOR FABRICATION James White DATE 1/2/70

DRAWN BY DATE 1-30-69

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

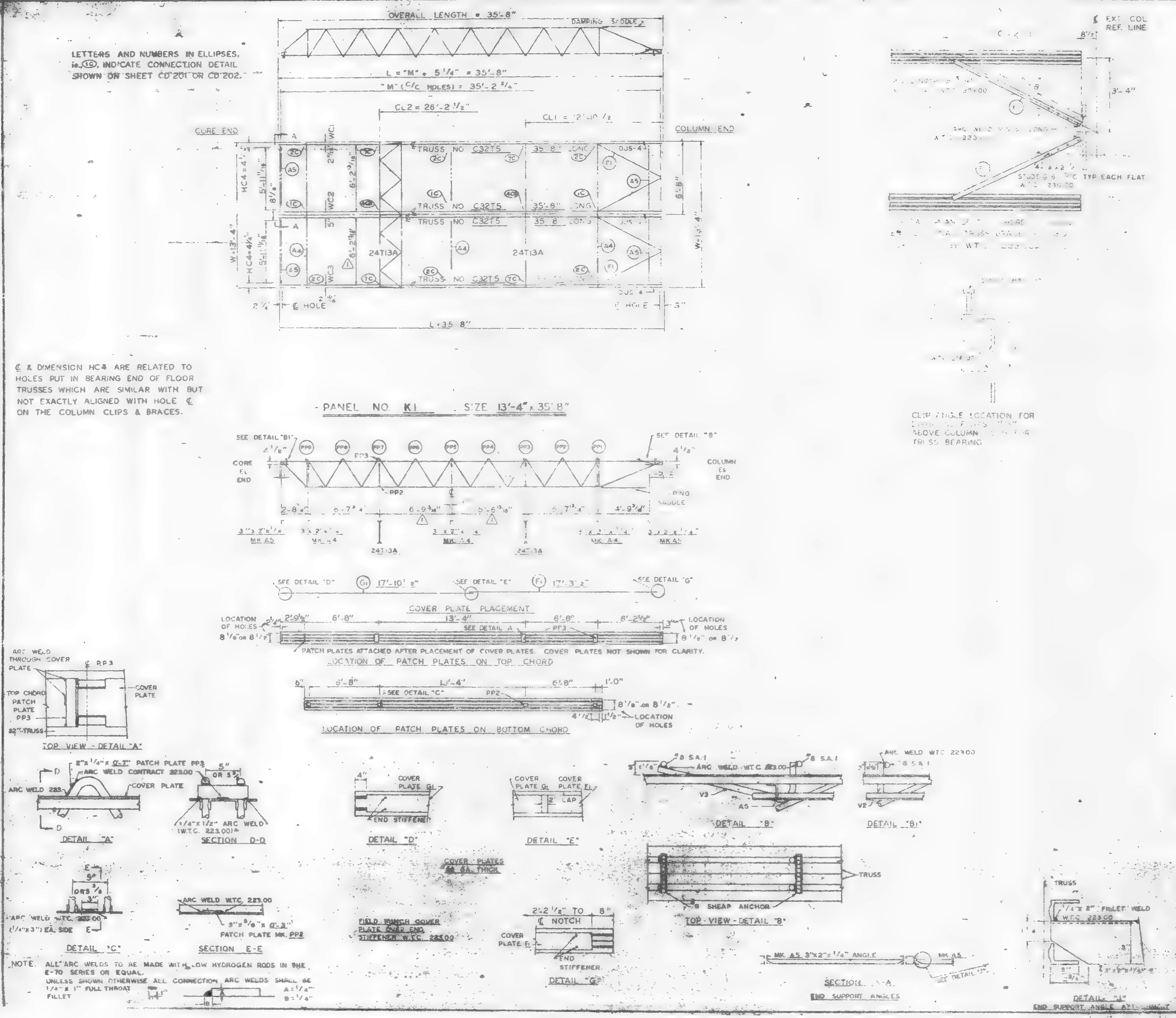
CHECKED BY T.M. CHURA DATE 1-30-69

LACLEDE STEEL CO.

DETAILED BY A.C. WEBER

FABRICATION CONT. NO. W.T.C. 231

SHEET NO. FP KR1



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	4	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T13A	2	2T13A-13-3	ST213A
3"x2"x1/4" ANGLE	A4	3	3"x2"x1/4"x13'-3"	ST403
	A5	4	3"x2"x1/4"x6'-1 15/16"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP3	8	2"x1/4"x0'-7"	ST 400
	PP2	8	3"x3/8"x0'-3"	ST 400
COVER PLATES	G1	2	7"x0.35"x17'-10 1/2"	ST303
	F1	2	7"x0.35"x17'-3 1/2"	ST303
ANGLE CLIPS	C2	8	2 1/2"x1 1/2"x1/4"x6"	ST 400
SHEAR ANCHOR	[illegible]	[illegible]	[illegible]	ST 400
DAMPING SADDLE	[illegible]	2	[illegible]	ST298
CONNECTION BAR	CB1	2	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	3	[illegible]	ST 400
	P2	2	[illegible]	ST 400
	P3	2	[illegible]	ST 400

NO.	DATE	REVISION	BY
2	6-23-69	AS NOTED	G.D.C.
1	3-11-69	AS NOTED	G.D.C.

REF DRWG (2)

7-AB3-20	7-22-68
7-AB4-11	1-3-68
7-AB1-5 & 16	7-22-68
7-AB4-39-41	7-22-68
SA 124	1-5-69
7-AB3-2	1-3-68
7-AB1-11 & 12	7-22-68
7-AB2-8	7-22-68
7-AB4-42 &	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45-49 (WEST), 80-83 (EAST)

PANEL K1

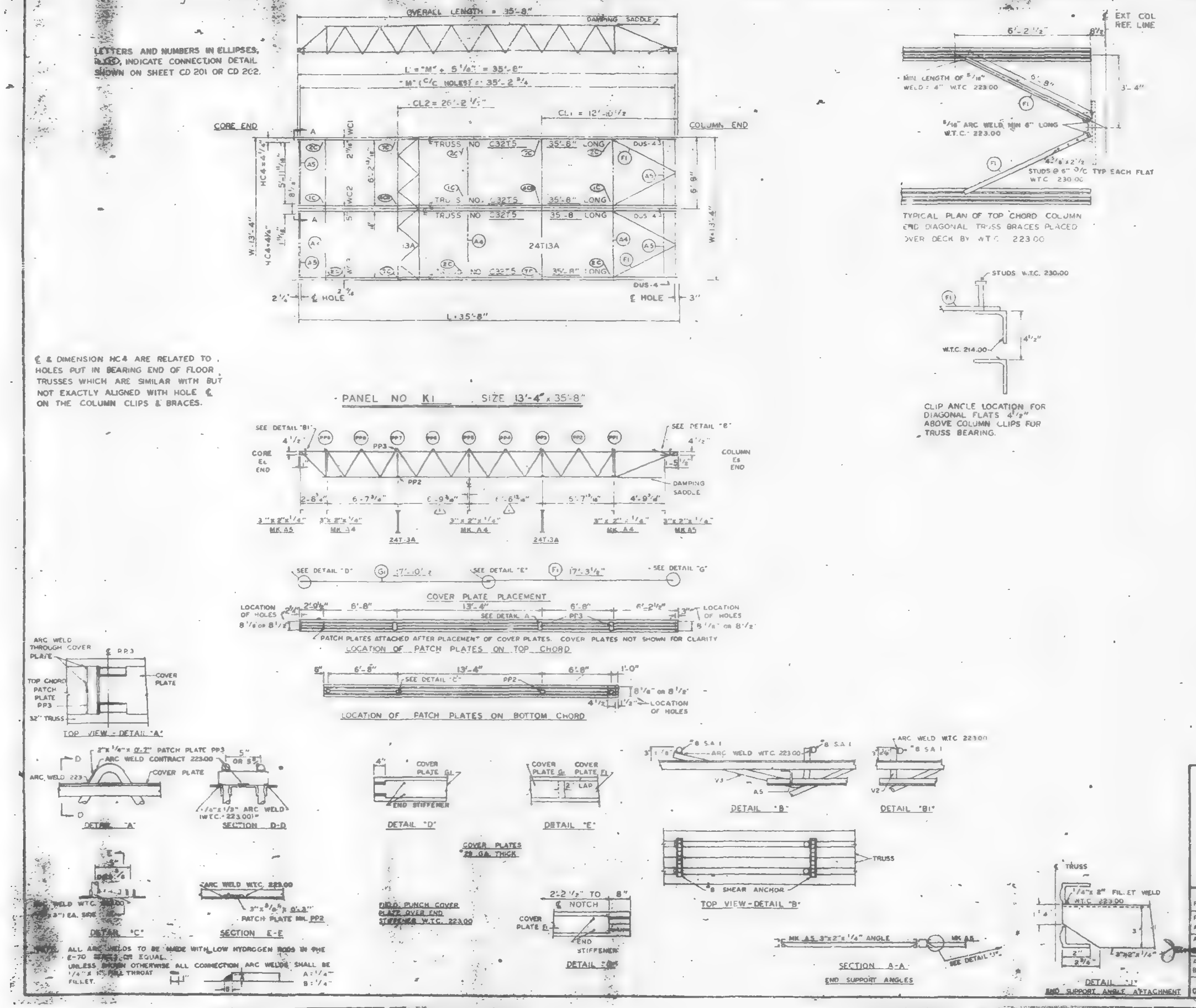
BLDG. B FLOORS 45-49 (SOUTH) 80-83 (NORTH) (2)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-20	
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 1/2/70	DRAWN BY [illegible] DATE 1-30-69	
APPROVED FOR FABRICATION ... FOR	DATE	CHECKED BY T.M. [illegible] DATE 1-30-69	
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. [illegible]

LETTERS AND NUMBERS IN ELLIPSES, INDICATE CONNECTION DETAIL SHOWN ON SHEET CD 201 OR CD 202.

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	4	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T13A	2	2T13A - 13'-3"	BT213A
3"x 2" x 1/4" ANGLE	A4	3	3"x2"x1/4"x13'-3"	ST403
	A5	4	3"x2"x1/4"x6'-[illegible]	[illegible]
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST402
PATCH PLATES	PP3	8	2"x 1/4"x 0'-7"	ST 400
	PP2	6	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	G1	2	7"x 0.035"x 17'-10 1/2"	ST303
	F1	2	7"x 0.035"x 1'-3 1/2"	ST303
ANGLE [illegible]	C2	8	2 1/2"x 1 1/2"x 1/4"x 6"	ST 400
#8 SHEAR ANCHOR	SA	6	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS-4	2	3"x 3"x 3/8"x 6 7/8"	ST298
[illegible] BAR	CB1	2	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3"x 3/8"x 0'-6 1/2"	ST 400
	P2	2	4 1/2"x .39"x 0'-9"	ST 400
	P3	2	4 1/2"x .39"x 1'-0"	ST 400

NO	DATE	REVISION	BY
1	3-11-69	AS NOTED	G.S.C.

REF DRWG

7-AB3-20	7-22-68
7-AB4-3 & 31	1-3-68
7-AB4-15 & 16	7-22-68
7-AB4 39-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-11 & 12	7-22-68
7-AB2 8	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45-49(WEST), 80-83(EAST)

PANEL K1 - 13'-4" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-20 PLATE

APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 3/24/69

DRAWN BY [illegible] DATE 1-20-69

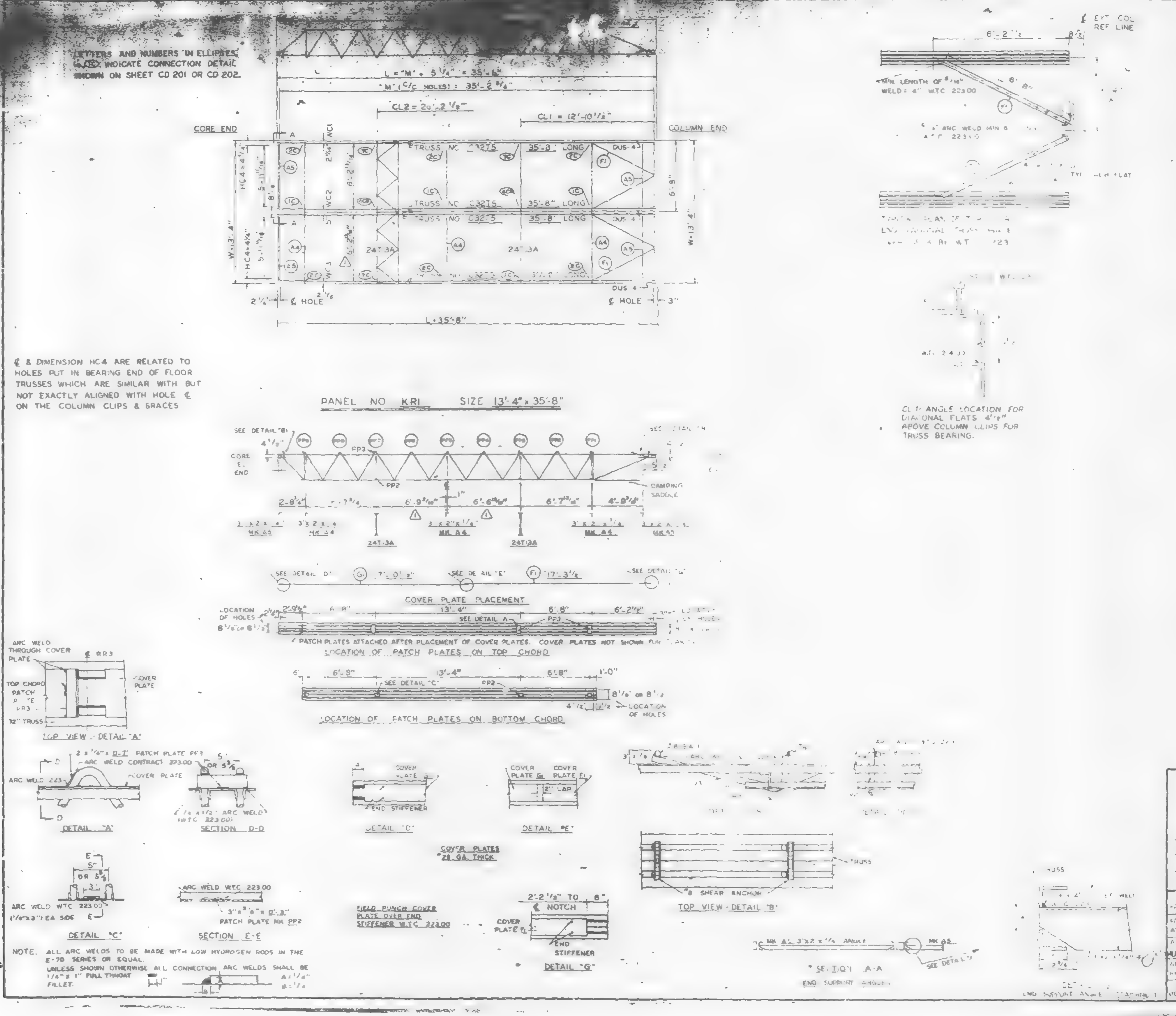
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

CHECKED BY T.M. CHIARA DATE 1-30-69

LACLEDE STEEL CO.

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FP-K1



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	4	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	7.13A	2	27.3A - 13'-3"	BT213A
3"x2"x1/4" ANGLE	A4	3	3"x2"x1/4"x13'-3	ST403
	A5	4	3"x2"x1/4"x6'-1 13/16"	ST403
DIAGONAL FLATS	F	4	[illegible] x 6'-8	ST402
PATCH PLATES	PP3	8	2" x [illegible] x 0'-7"	ST 400
	PP2	8	3" x 3/8 x 0'-3"	ST 400
[illegible] PLATE	G	2	[illegible] x 0.35 x 7'-10 1/2	ST 303
	F1	2	7 x 0.35 x 7'-3 1/2	ST 303
[illegible]	[illegible]	8	2 1/2 x 1 1/2 x [illegible]	ST 400
[illegible]	[illegible]	6	[illegible]	ST 400
[illegible]	[illegible]	2	[illegible]	[illegible]
[illegible]	CH	2	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	3	[illegible] x 0'-6 1/2"	ST 400
	P2	2	4 1/2 x .39" x 0'-5"	ST 400
	P3	2	4 1/2" x .39" x 1'-0"	ST 400

NO	DATE	REVISION	BY
1	3-11-69	AS NOTED	G.D.C.

REF DRWG

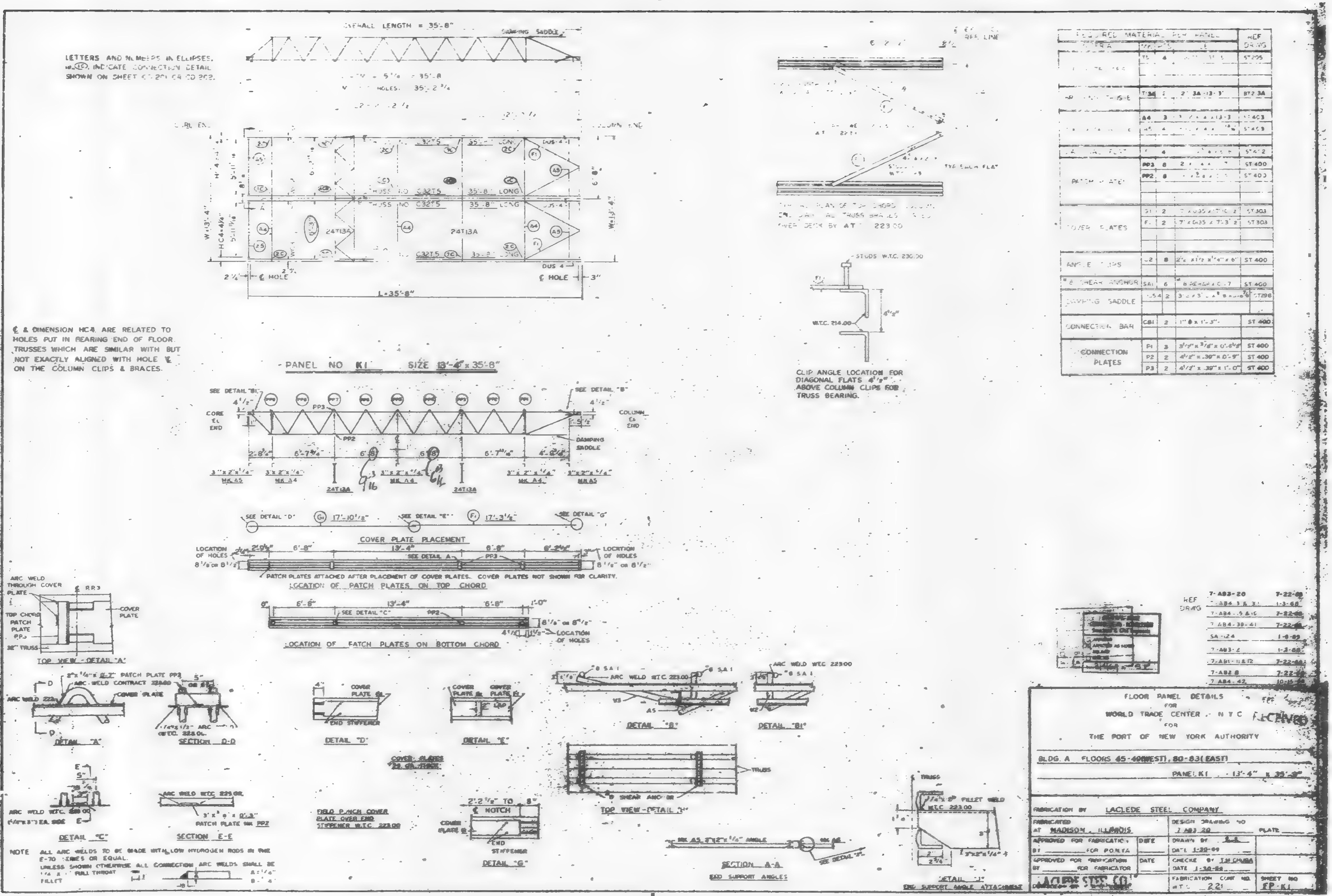
7-AB3-21	7-22-68
7-AB4-3 & 31	7-3-68
7-AB4-5 & 16	7-22-68
7-AB4-39-41	7-22-68
SA-124	1-6-69
7-AB3-[illegible]	1-3-68
7-AB1-[illegible]	7-22-68
7-AB2-8	7-22-58
7-AB4-42	[illegible]

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

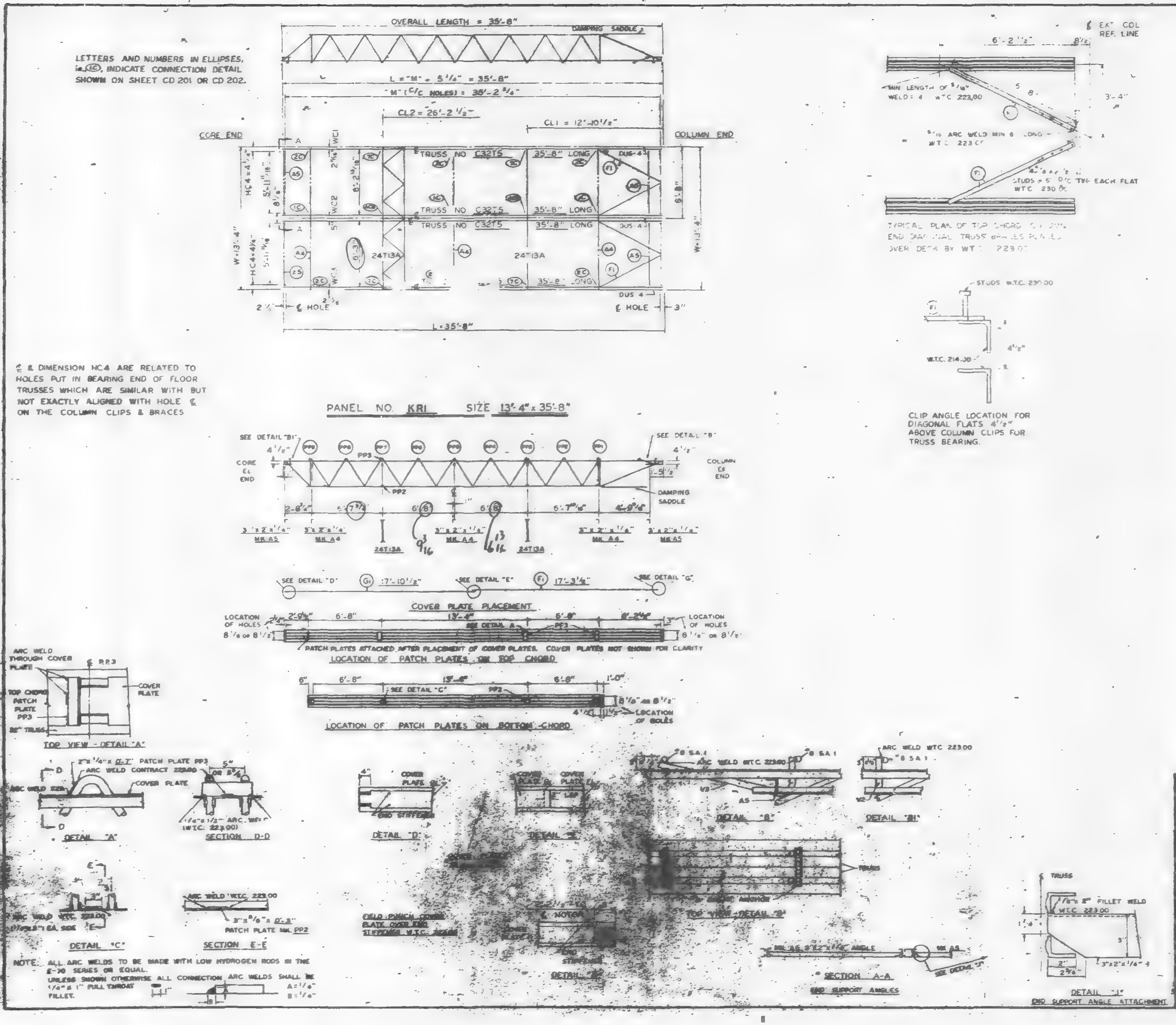
BLDG A FLOORS 46-49(EAST), 79-83(WEST)

PANEL KR1 13'-4" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-21 PLATE
APPROVED FOR FABRICATION [illegible] PONYA DATE 3/24/69
DRAWN BY [illegible] DATE 1-20-69
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE [illegible]-69
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP-KR1



OVERALL LENGTH = 35'-8"
DAMPING SADDLE
LETTERS AND NUMBERS IN ELLIPSES, INDICATE CONNECTION DETAIL SHOWN ON SHEET CD-201 OR CD-202.
TRUSS NO. C32T5 35'-8" LONG
24T13A
DUS 4
2 1/4" ℄ HOLE
℄ HOLE 3"
L-35'-8"
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
PANEL NO. K1 SIZE 13'-4" x 35'-8"
SEE DETAIL "B1"
SEE DETAIL "B"
CORE ℄ END
COLUMN ℄ END
DAMPING SADDLE
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "G"
17'-10 1/8"
17'-3 1/2"
COVER PLATE PLACEMENT
LOCATION OF HOLES
SEE DETAIL A
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "C"
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B"
DETAIL "B1"
COVER PLATES 22 GA. THICK
TOP VIEW - DETAIL "H"
DETAIL "C"
SECTION E-E
FIELD PUNCH COVER PLATE OVER END STIFFENER W.T.C. 223.00
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
REQUIRED MATERIAL PER PANEL
REF DRWG
PATCH PLATES
PP3 8 ST 400
PP2 8 ST 400
COVER PLATES
ANGLE CLIPS
L2 8 2 1/2 x 1 1/2 x 1/4" x 6" ST 400
#6 SHEAR ANCHOR
SA1 6 ST 400
DAMPING SADDLE
DUS4 2 ST298
CONNECTION BAR
CB1 2 1" ⌀ x 1'-3" ST 400
CONNECTION PLATES
P1 3 3 1/2" x 3/8" x 0'-6 1/2" ST 400
P2 2 4 1/2" x .39" x 0'-9" ST 400
P3 2 4 1/2" x .39" x 1'-0" ST 400
REF DRWG
7-AB3-20 7-22-68
SA-124 1-6-69
7-AB3-2 1-2-68
7-AB1-11 & 12 7-22-68
7-AB2 8 7-22-68
7-AB4-42 10-15-68
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 45-49(WEST), 80-83(EAST)
PANEL K1 13'-4" x 35'-8"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 AB3 20
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.
DATE
APPROVED FOR FABRICATION BY FOR FABRICATOR
DRAWN BY
DATE 1-30-69
CHECKED BY
DATE 1-30-69
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-K1
LACLEDE STEEL CO.
RECEIVED



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	4	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T13A	2	2T13A -13-3"	ST213A
3" x 2" x 1/4" ANGLE	A4	3	3"x2"x1/4"x13'-3"	ST 403
	A5	4	3"x2"x1/4"x6'-13/16"	ST 409
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x 6'-8"	ST 402
PATCH PLATES	PP3	8	2"x 1/4"x 0'-7"	ST 400
	PP2	8	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	G1	2	7"x 0135"x 17'-10 1/2"	ST 303
	F1	2	7"x 0135"x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	8	2 1/2 x 1 1/2 x 1/4" x 6"	ST 400
# 8 SHEAR ANCHOR	SA1	6	# 8 REBAR x 0'-7	ST 400
DAMPING SADDLE	DUS-4	2	3 1/2" x 3 1/2" x 3/8" x 3' 6 7/8"	ST 298
CONNECTION BAR	CB1	2	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .38" x 0'-9"	ST 400
	P3	2	4 1/2" x .38" x 1'-0"	ST 400

REF DRWG

7-A83-21	7-22-68
7-A84-2 & 3.1	1-6-69
7-A84-15 & 16	7-22-68
7-A84-39-41	7-22-68
SA-124	1-6-69
7-A83-2	1-3-69
7-A81-11 & 12	7-22-68
7-A82-8	7-22-68
7-A84-42	[illegible]

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 46-49(EAST), 79-83(WEST)

PANEL KR1 13'-4"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-A83-21

APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE

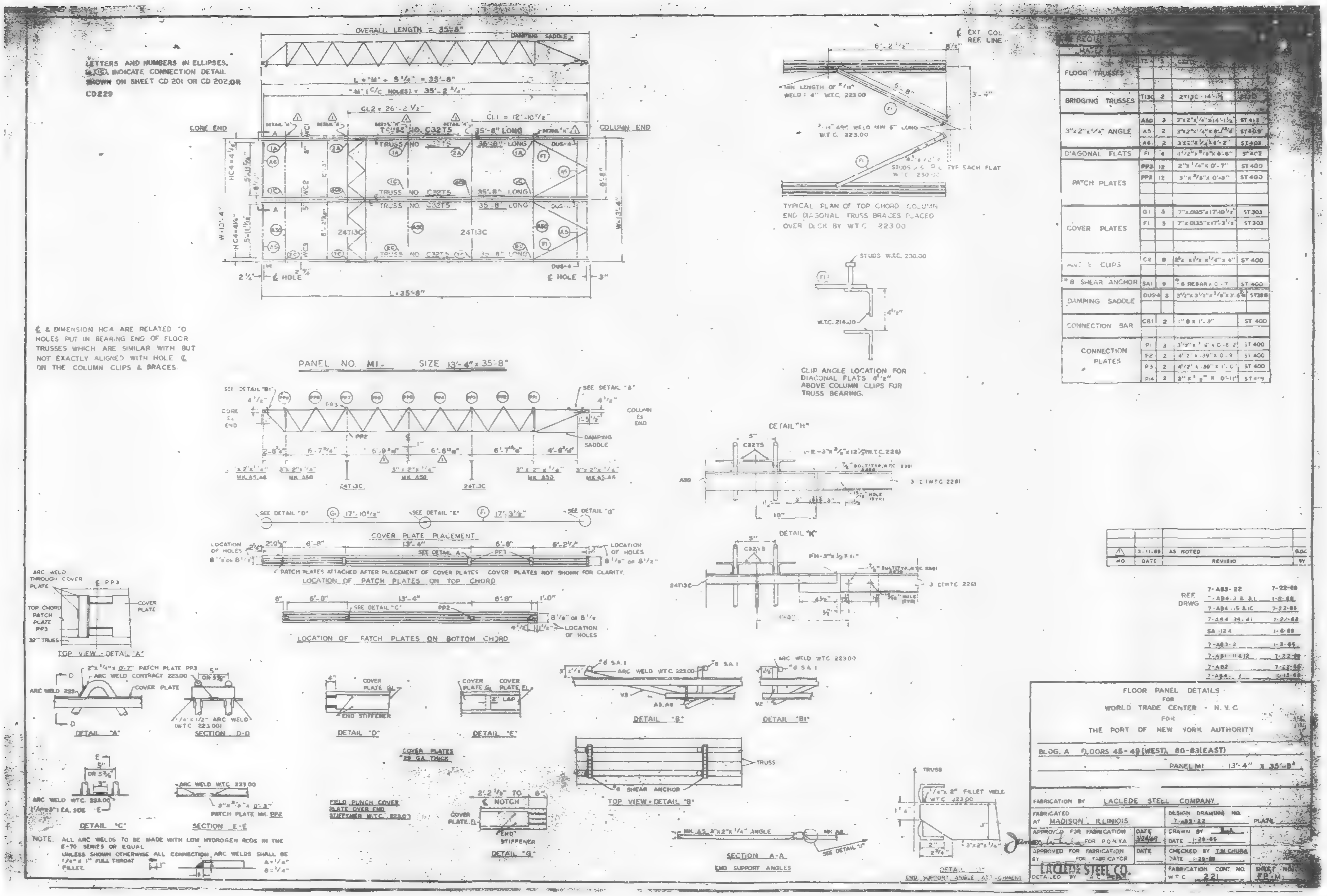
DRAWN BY [illegible] DATE 1-30-69

APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE

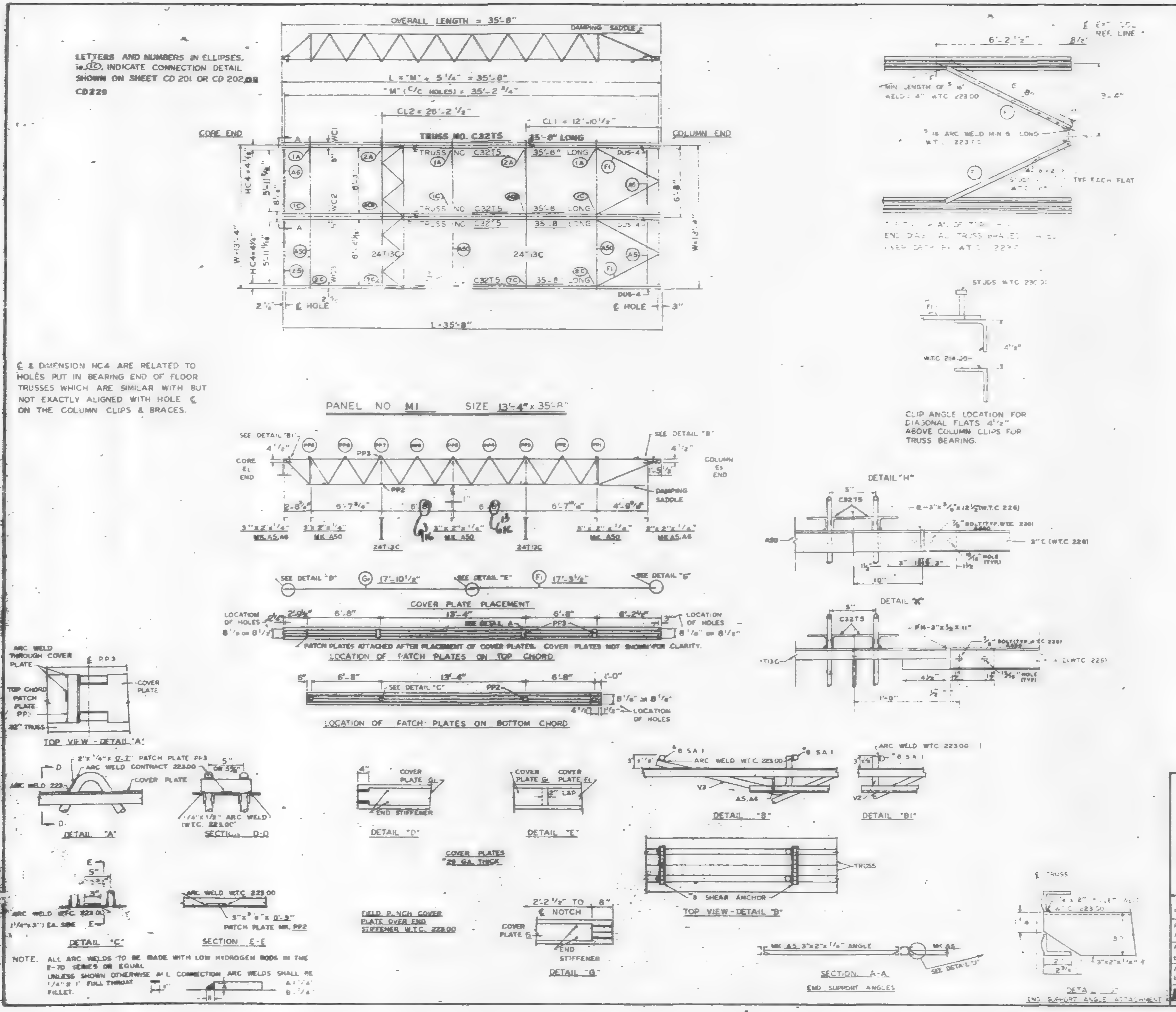
CHECKED BY T.M.CHUNG DATE 1-30-69

DETAILED BY A.C. WEBER

FABRICATION CONT. NO. W.T.C. 221



FLOOR TRUSSES	T24	5	C32TS	
BRIDGING TRUSSES	T13C	2	2T13C-14'-1½	
3"x2"x1/4" ANGLE	A50	3	3"x2"x1/4"x14'-1½	ST 412
	A5	2	3"x2"x1/4"x6'-1³/₁₆	ST 409
	A6	2	3"x2"x1/4"x6'-2	ST 403
DIAGONAL FLATS	F1	4	4½"x⁵/₈"x 6'-8"	ST 402
PATCH PLATES	PP3	12	2"x1/4"x 0'-7"	ST 400
	PP2	12	3"x³/₈"x 0'-3"	ST 400
COVER PLATES	G1	3	7"x.0135"x17'-10½"	ST 303
	F1	3	7"x.0135"x17'-3½"	ST 303
ANGLE CLIPS	C2	8	2½x1½x1/4"x6"	ST 400
#8 SHEAR ANCHOR	SA1	8	#8 REBAR x 0'-7	ST 400
DAMPING SADDLE	DUS-4	3	3½"x3½"x³/₈"x3'-6¾	ST 288
CONNECTION BAR	CB1	2	1"⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3½"x ? 6"x 0'-6 ?	ST 400
	P2	2	4½"x .39"x 0'-9	ST 400
	P3	2	4½"x .39"x 1'-0	ST 400
	P14	2	3"x ½" x 0'-11"	ST 409



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	5	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T13C	2	24T13C - 14'-1 1/2	ST213C
3"x2"x1/4" ANGLE	A50	3	3"x2"x1/4"x14'-1 1/4"	ST412
	A5	2	3"x2"x1/4"x6'-[illegible]	ST403
	A6	2	3"x2"x1/4"x6'-2"	ST403
DIAGONAL FLATS	F	4	[illegible] x6'-8"	ST402
PATCH PLATES	PP3	12	2"x1/4"x0'-7"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	G1	3	[illegible] x0.35"x7'-10 1/2"	ST303
	E	3	[illegible] x0.35x7'-3 1/2"	ST303
[illegible]	[illegible]	8	[illegible]	ST400
[illegible]	SA	[illegible]	[illegible]	ST400
[illegible] SADDLE	[illegible]	3	[illegible]	T298
[illegible] BAR	CB	2	[illegible]	ST400
CONNECTION PLATES	P1	3	3"x3/8"x[illegible]	ST400
	P2	2	4 1/2"x.39"x0'-9"	ST400
	P3	2	4 1/2"x.39"x1'-0"	ST400
	P4	2	3"x1/2"x0-11"	ST409

REF DRAG	
7-AB3-22	7-22-68
7-AB4-3 & 3	[illegible]
7-AB4-5 & 15	7-22-68
7-AB4-39-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB[illegible] 11 & 12	7-22-68
7-AB2	7-22-68
7-AB4-42	10-15-68

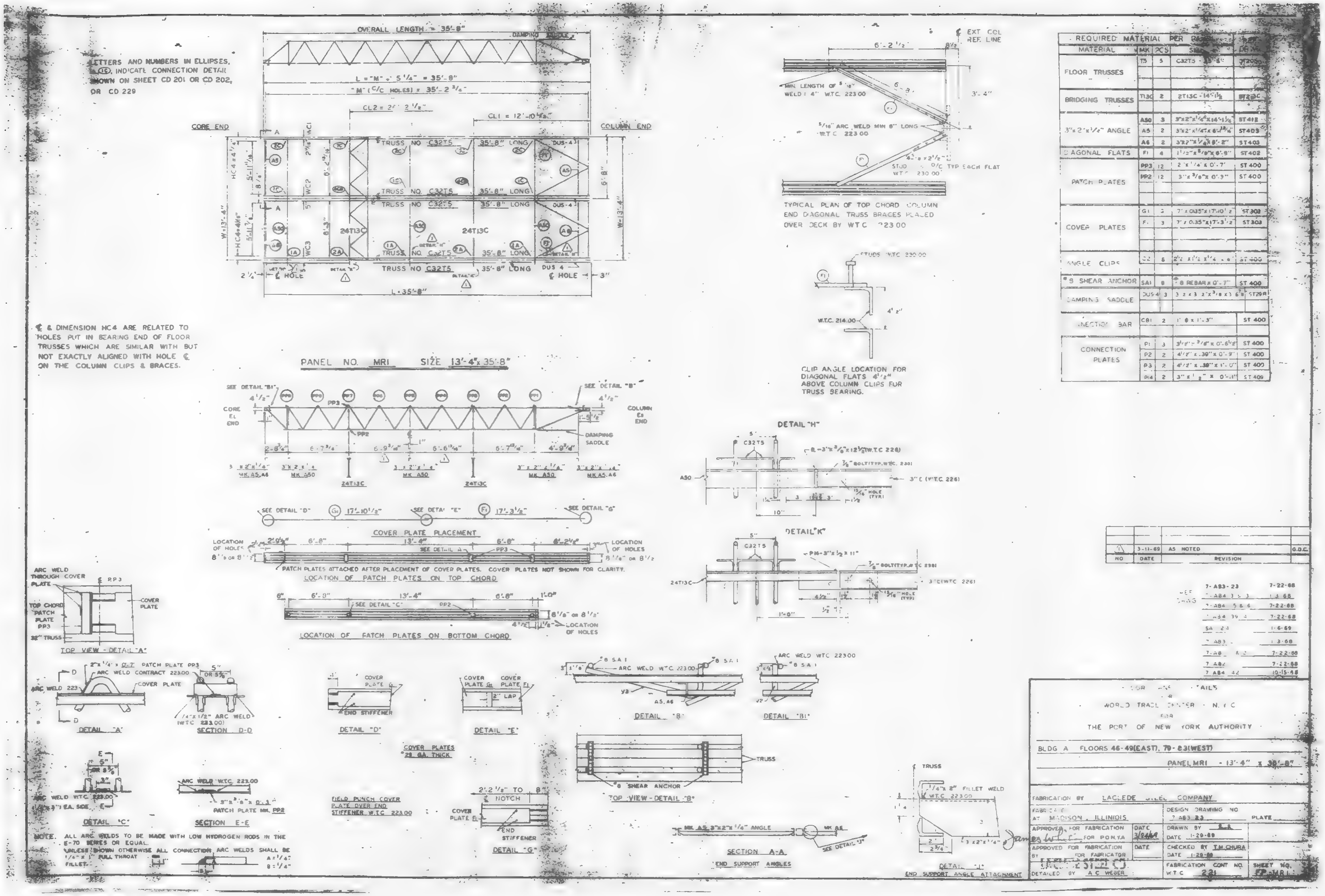
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 45-49 (WEST), 80-83 (EAST)

PANEL M1 - 13'-4" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB3-22 PLATE
APPROVED FOR FABRICATION BY ____ FOR PONYA — DATE	DRAWN BY [illegible] DATE 1-29-69
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR — DATE	CHECKED BY T.M. CHURA DATE 1-29-69
LACLEDE STEEL CO. [illegible] WEBER	FABRICATION CONT NO WTC 221 — SHEET NO. FP-M1



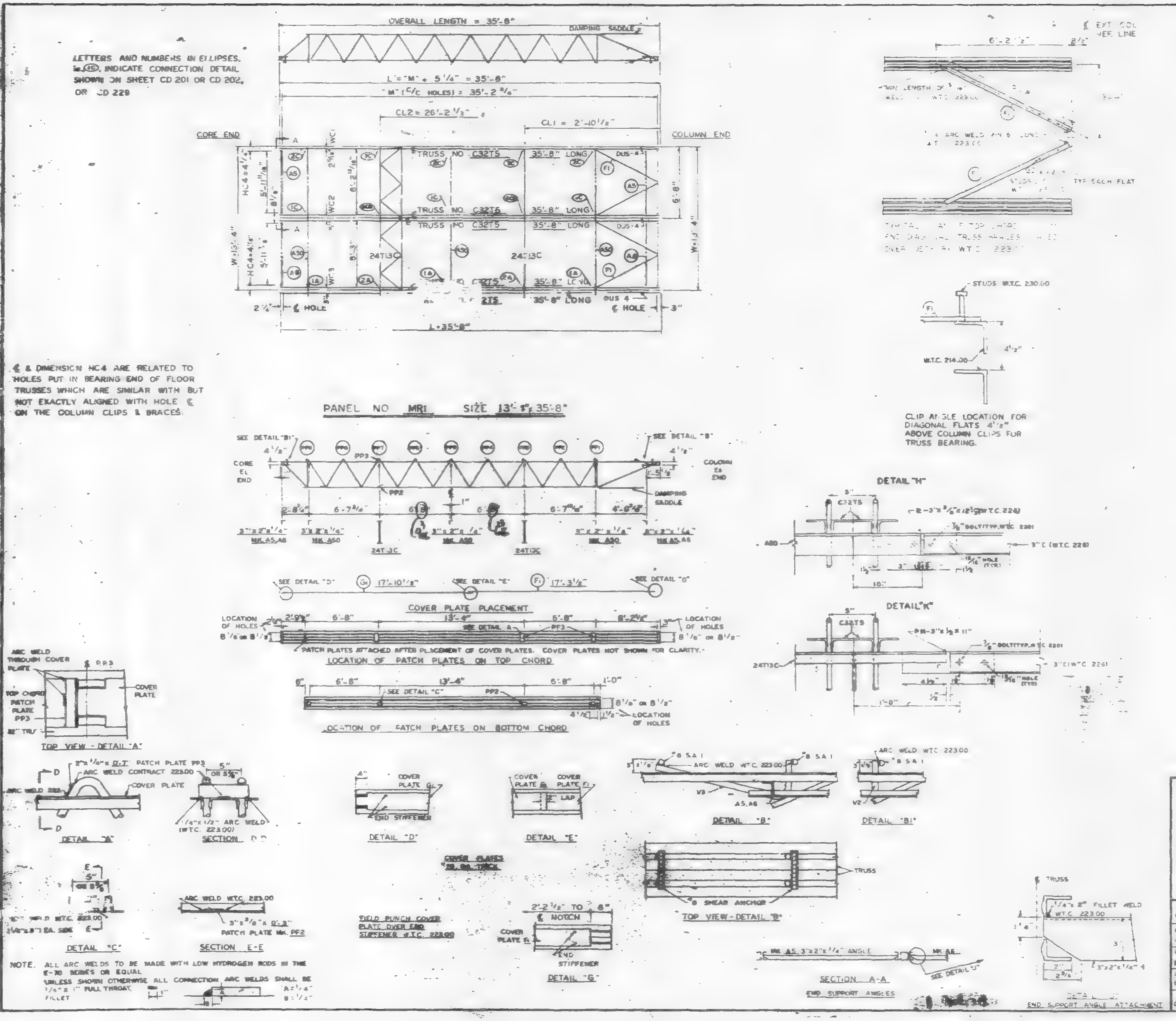
REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DR. NO.
FLOOR TRUSSES	T5	5	C32T5 - 35'-8"	[illegible]
BRIDGING TRUSSES	T13C	2	2T13C - 14'-1 1/2	[illegible]
3"x2"x1/2" ANGLE	A50	3	3"x2"x1/4"x14'-1 1/4	ST 412
	A5	2	3"x2"x1/4"x 8'-[illegible]	ST 403
	A6	2	3"x2"x1/4"x 8'-2"	ST 403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x 6'-9"	ST 402
PATCH PLATES	PP3	12	2"x1/4"x 0'-7"	ST 400
	PP2	12	3"x3/8"x 0'-3"	ST 400
COVER PLATES	G1	3	7'x 0.35"x 17'-10 1/2"	ST 303
	F1	3	7'x 0.35"x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	6	2 1/2 x 1 1/2 x 1/4 x [illegible]	ST 400
#9 SHEAR ANCHOR	SA1	8	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS-4	3	3 2 x 3 2"x3/8 x 3 6 7/8	ST 29R
CONNECTION BAR	CB1	2	1' 0 x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2"x3/8"x 0'-6 1/2"	ST 400
	P2	2	4 1/2"x .39"x 0'-9"	ST 400
	P3	2	4 1/2"x .39"x 1'-0"	ST 400
	P14	2	3"x1/2"x 0'-11"	ST 409

NO.	DATE	REVISION	O.D.C.
1	3-11-69	AS NOTED	

FLOOR PANEL DETAILS
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 46-49(EAST), 79-83(WEST)
PANEL MR1 - 13'-4" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 AB3 23 PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 3/24/69
DRAWN BY [illegible] DATE 1-29-69
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE 1-29-69
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-MR1



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	5	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T13C	2	2T13C - 14'-1½	BT213C
3"x2"x¼" ANGLE	A50	3	3"x2"x¼"x14'-1¼"	ST412
	A5	2	3"x2"x¼"x6'-[illegible]	ST403
	A6	2	3"x2"x¼"x6'-2"	ST403
DIAGONAL FLATS	F1	4	[illegible]"x[illegible]"x5'-8"	ST402
PATCH PLATES	PP3	12	[illegible]"x[illegible]"x0'-7"	ST400
	PP2	12	3"x⅜"x0'-3"	ST400
COVER PLATES	G1	3	7"x0.35"x7'-[illegible]"	ST303
	F	3	7 x 0.35 x 7'-3½"	ST303
ANGLE CLIPS	C2	8	2½"x1½"x¼"x6"	ST400
#6 SHEAR ANCHOR	SA	9	#6 REBAR x 0'-7"	ST400
DAMPING SADDLE	DUS-4	3	3½x3½x⅜"x3'-6⅞"	ST290
CONNECTION BAR	CB1	2	1" ø x 1'-3"	ST400
CONNECTION PLATES	P1	3	3½"x⅜"x0'-6½"	ST400
	P2	2	4½"x.39"x0'-9"	ST400
	P3	2	4½"x.39"x1'-0"	ST400
	P4	2	3"x½"x0'-11"	ST400

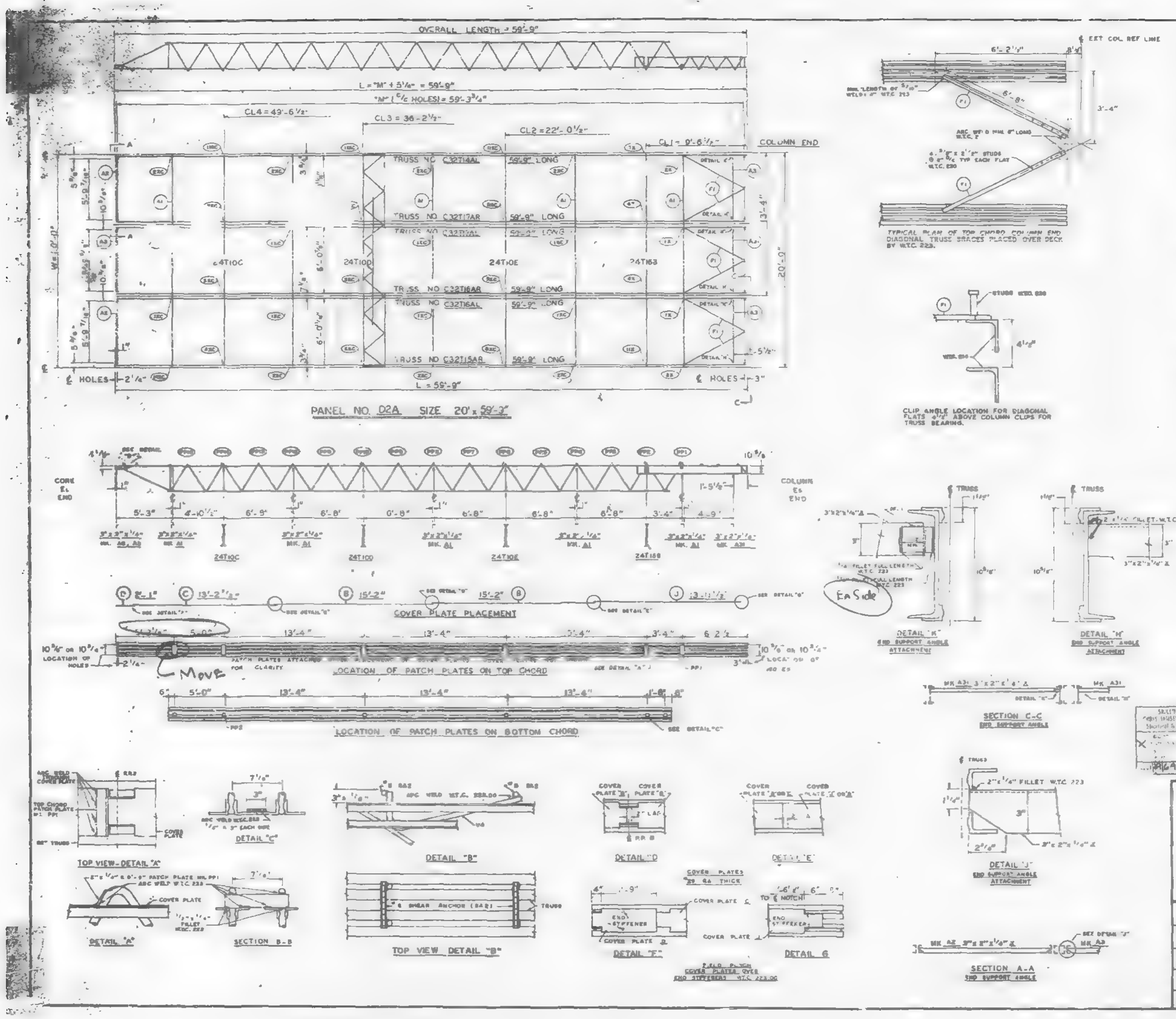
REF DRWG	
7-AB3-23	7-22-68
7-AB4-3 & 3	1-3-68
7-AB4-15 & 6	7-22-68
7-AB4-39-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-1 & 2	7-22-68
7-AB2	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 46-49(EAST), 79-83(WEST)

PANEL MR1 - 13'-4" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINIOIS	DESIGN DRAWING NO 7 AB3-23 PLATE
APPROVED FOR FABRICATION BY ____ FOR P.O.N.Y.A. DATE	DRAWN BY [illegible] DATE 1-28-69
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE	CHECKED BY T.M. CHURA DATE 1-29-69
DETAILED BY A. C. WEBER	FABRICATION CONT NO W.T.C. 221 — SHEET NO. FP-MR1



REQUIRED MATERIAL PER PANEL				REF DRW'G
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14AL	1	C32T14AL x 59'-9"	ST 214AL
	T15AR	1	C32T15AR x 59'-9"	ST 215AL
	[illegible]	1	[illegible]	ST 216AL
	[illegible]	1	[illegible]	
	[illegible]	1	[illegible]	ST 217AL
	[illegible]		[illegible]	
BRIDGING TRUSSES	T10C	1	24T10C x 9'-1"	ST 210C
	T10D		24T10D x 12'-11"	ST 210D
	T10E	1	24T10E x 18'-11"	ST 210E
	T163	1	24T163 x 18'-11"	ST 2163
3" x 2" x 1/4" ANGLE	A1	8	3" x 2" x 1/4" x 18'-11"	ST 403
	A2	2	[illegible]	ST 403
	A3	1	[illegible]	ST 403
	A31	3	3" x 2" x 1/4" x 5'-8 3/8"	ST 410
CLOSURE PLATES	PC1	2	[illegible]	[illegible]
DIAGONAL FLATS	F1	6	1 1/2" x 5/16 x 6'-8"	ST 402
PATCH PLATES	PP1	6	2" x 1/4" x 0'-8"	ST 403
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135 x 5'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	24	2" x 1 1/2" x .25" x 6"	ST 400
"E SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-8"	ST 400
CONNECTION BAR	CB1	(34)	1" φ x 1'-3"	ST 400
	CB4	9	1" φ x 0'-10"	ST 400
	CD	1	1"φ x 1'-7	
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	1	4 1/2" x .39" x 0'-9"	ST 400
	P4	3	6 1/2" x 1/2" x 0'-8"	ST 400
	P8		4 1/2" x .39" x 0'-8"	ST 40
	P9	6	3" x 1 [illegible]	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS i.e. (12).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

SKILLING HELLE CHRISTIANSEN ROBERTSON
Structural & Civil Engineers

X

...D2A . SK

REF. DRWG.	
7-A83-30	10-4-68
7-A84-28	7-22-68
7-A8 -13	10-4-68
7-A81-14, 5 & 16	10-4-68
7-A82-13	10-4-68
7-A82-17	10-4-68
3A-124	10-4-68

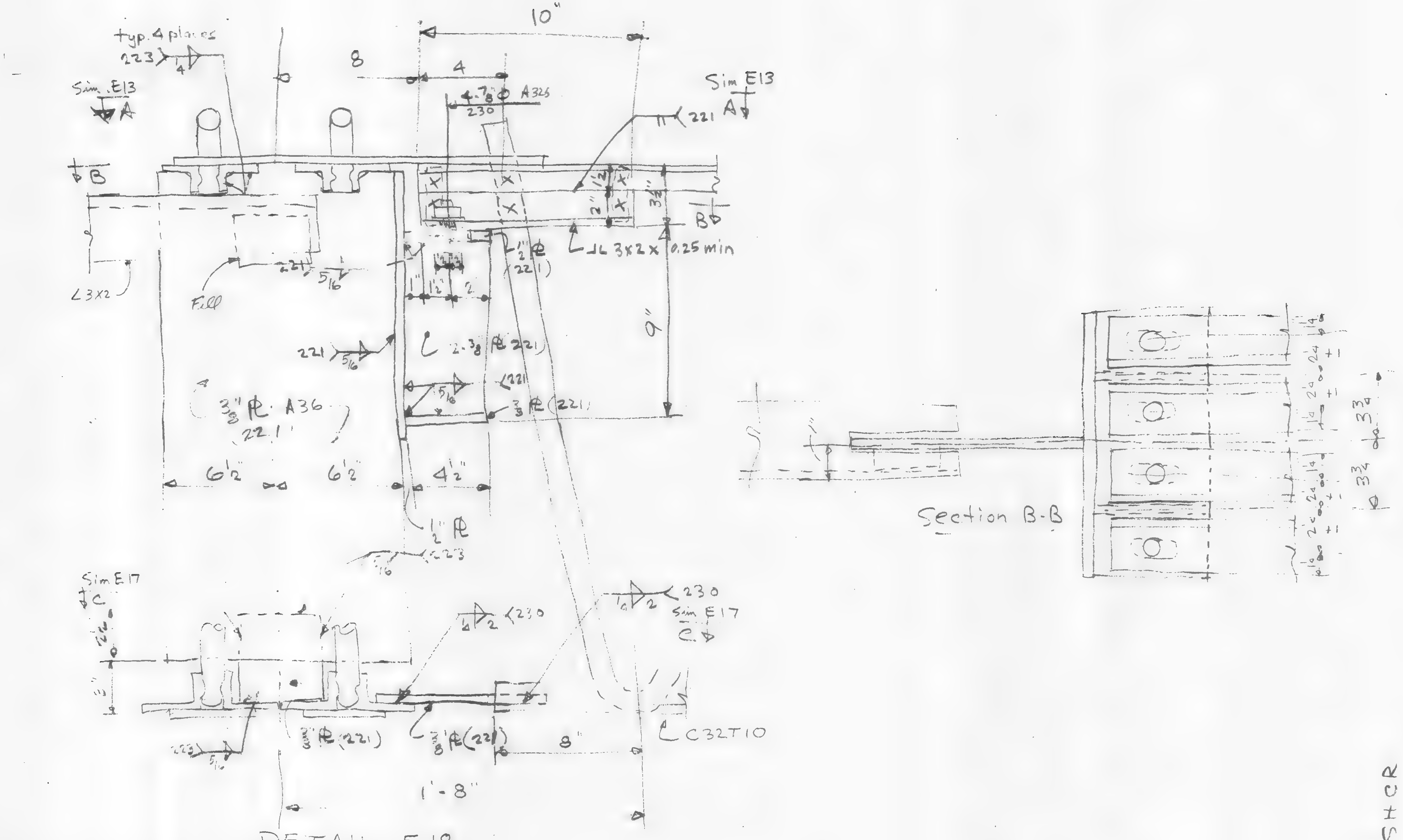
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)

PANEL D2A - 20' x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY

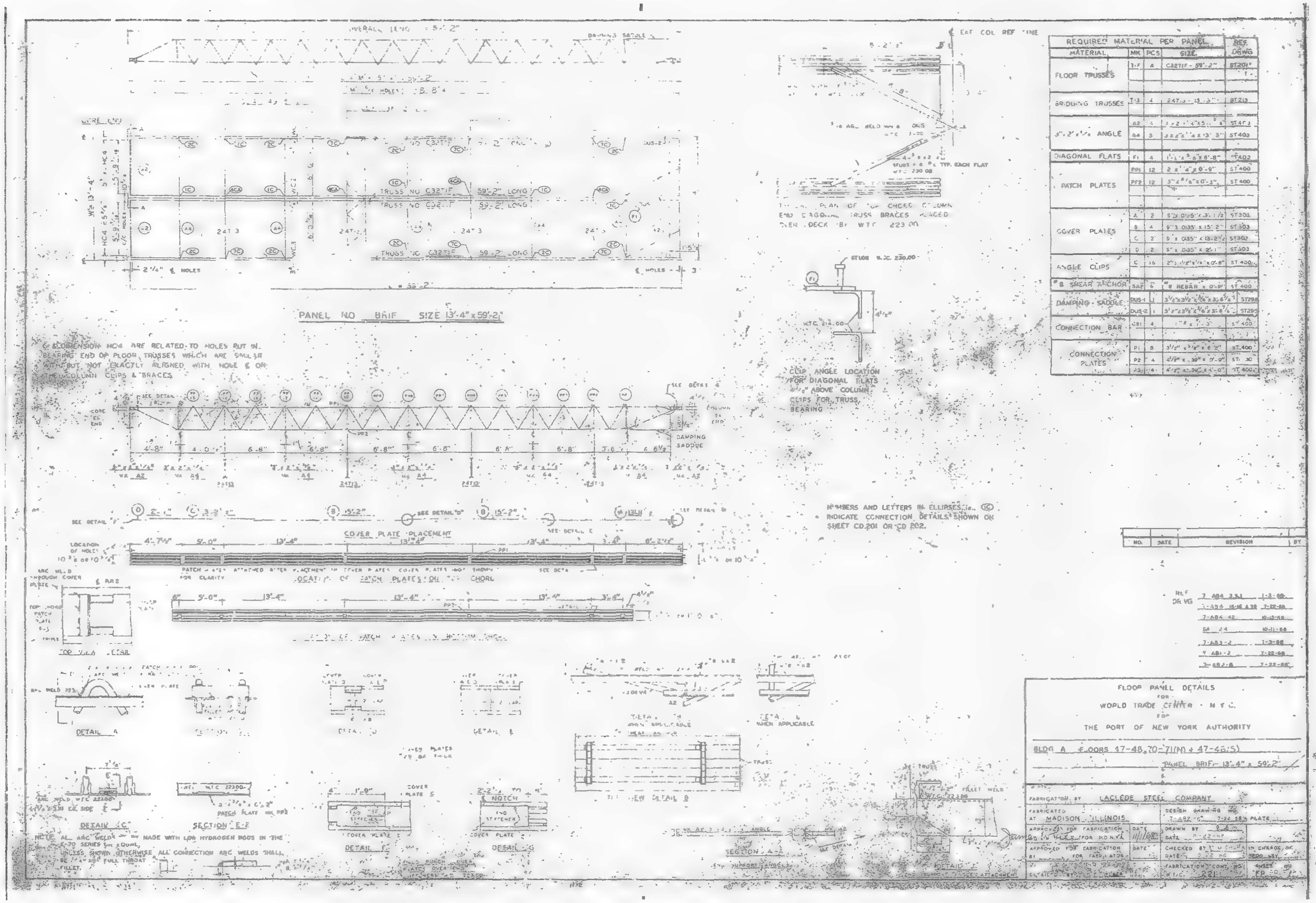
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-A83-30	PLATE
APPROVED ON FABRICATION BY ______ FOR P.O.N.Y.A.	DATE	DRAWN BY [illegible] DATE DEC. 5, 1968	
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR	DATE	CHECKED BY [illegible] DATE DEC. 5, 1968	IN CHARGE OF PROD. [illegible]
DRAWN BY [illegible]		FABRICATION CONT. NO. W.T.C. 22	SHEET NO. FP D2A



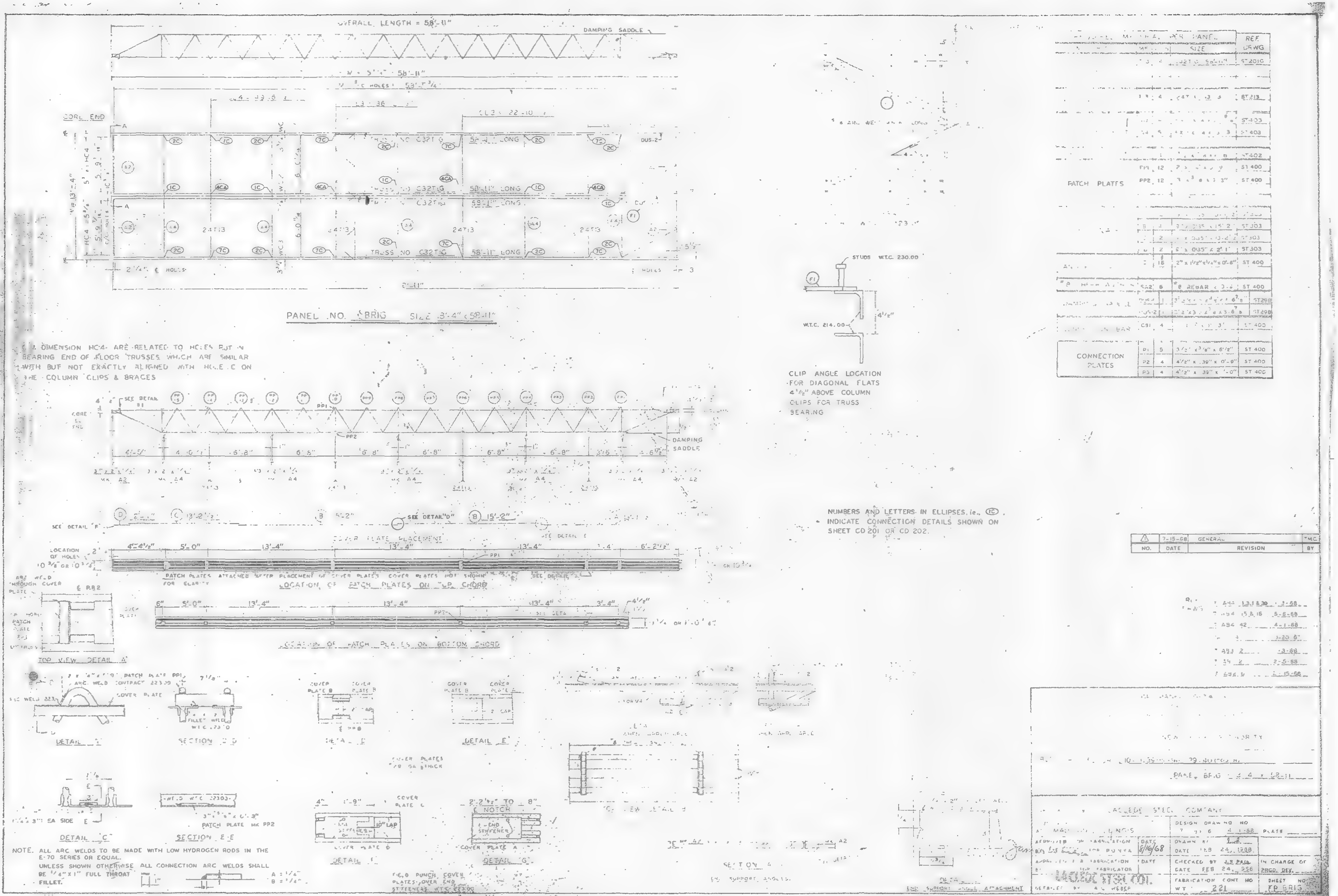
DETAIL E18

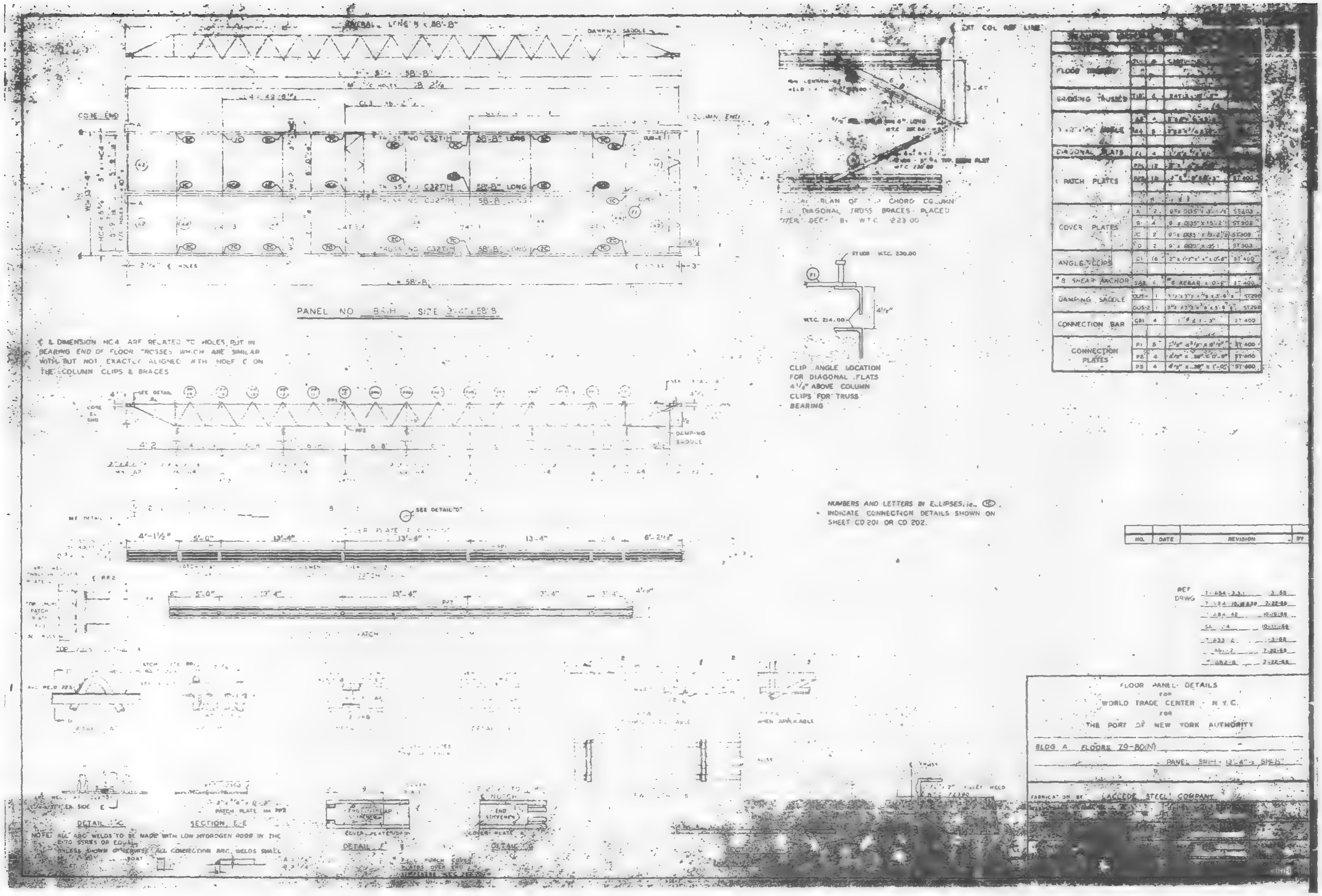
SHCR

WTC1-131-LERA

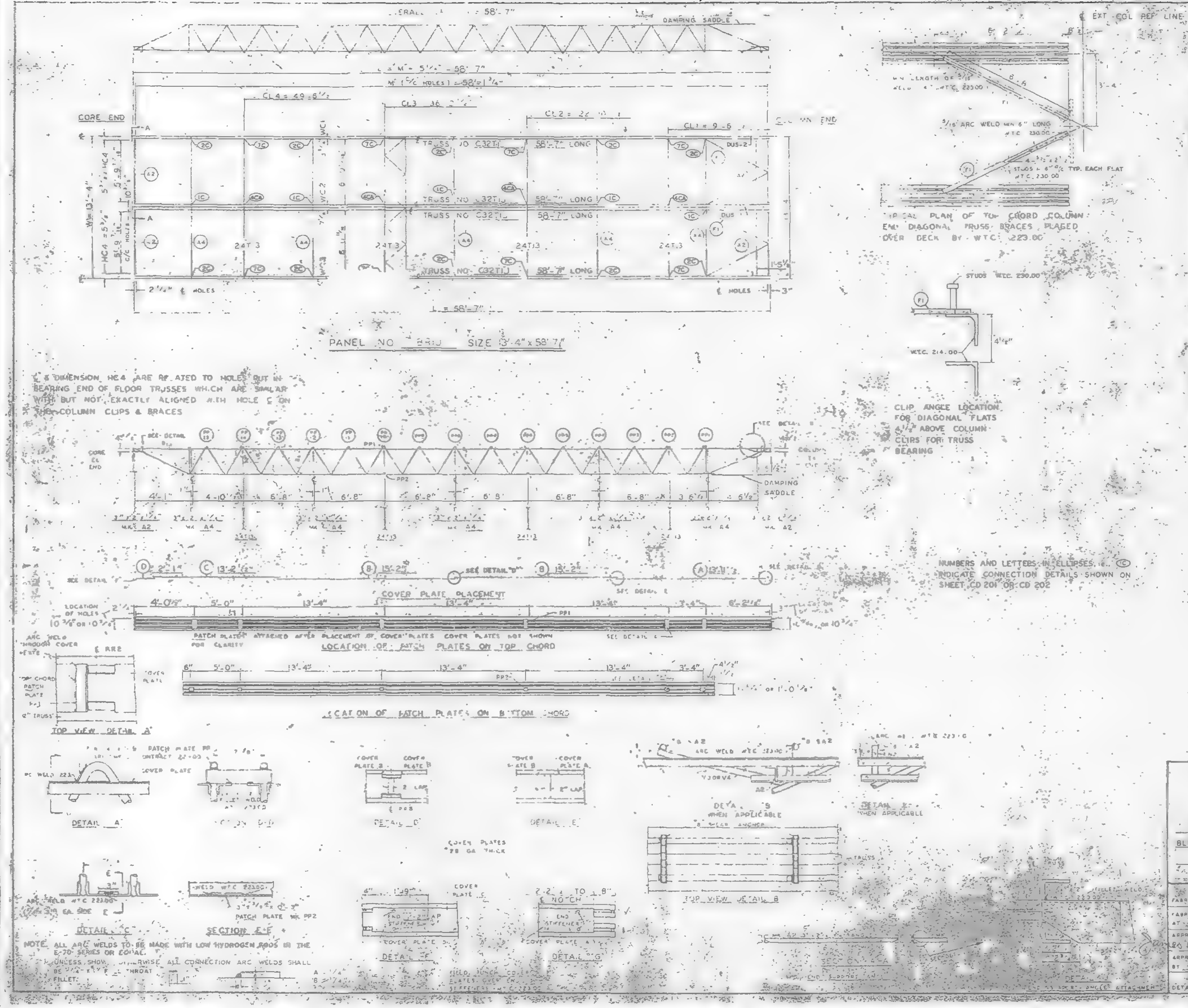


REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T-F	4	C32T1F - 59'-2"	ST201
BRIDGING TRUSSES	T-3	4	24T3 - 13'-3"	ST213
3" x 2" x 1/4" ANGLE	A2	4	[illegible]	ST403
	A4	5	3 x 2 x 1/4 x 13'-3"	ST403
DIAGONAL FLATS	F1	4	[illegible] x 6'-8"	ST402
PATCH PLATES	PP1	12	2 x 1/4 x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST400
COVER PLATES	A	2	9" x 0.135" x 3'-1 1/2	ST303
	B	4	9" x 0.135" x 15'-2"	ST303
	C	2	9" x 0.135" x 13'-2 1/2	ST303
	D	2	9" x 0.135" x 2'-1"	ST303
ANGLE CLIPS	C	16	2" x 1 1/2" x 1/4" x 0'-8"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST295
CONNECTION BAR	CB1	4	1" # x 1'-3"	ST400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 0'-2"	ST400
	P2	4	4 1/2" x .30" x 0'-0"	ST [illegible]
	P3	4	4 1/2" x .30" x 1'-0"	ST400


OVERALL LENGTH = 58'-11"
DAMPING SADDLE
PANEL NO. 6BRIG SIZE 13'-4" x 58'-11"
TRUSS NO. C32T16 58'-11" LONG
DIMENSION HC-4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
PATCH PLATES
CONNECTION PLATES
NUMBERS AND LETTERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL C
SECTION E-E
DETAIL E
DETAIL F
DETAIL G
NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
DAMPING SADDLE
LACLEDE STEEL COMPANY
PANEL 6BRIG 13'-4" x 58'-11"
FP 6BRIG



PANEL NO. 8R1H . SIZE 13'-4" x 58'-8"
CORE END
COLUMN END
DAMPING SADDLE
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HDEF ℄ ON THE COLUMN CLIPS & BRACES
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
NUMBERS AND LETTERS IN ELLIPSES, i.e. INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.
FLOOR TRUSSES
BRIDGING TRUSSES
DIAGONAL FLATS
PATCH PLATES
COVER PLATES
ANGLE CLIPS
#8 SHEAR ANCHOR
DAMPING SADDLE
CONNECTION BAR
CONNECTION PLATES
NO. DATE REVISION
SECTION E-E
DETAIL "C"
DETAIL "F"
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG A FLOORS 79-80(N)
PANEL 8R1H - 13'-4" x 58'-8"
FABRICATION BY LACLEDE STEEL COMPANY



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1	4	C32TL - 58'-7"	ST201
BRIDGING TRUSSES	T13	4	24T.3 - 13'-3"	ST213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	2	9"x0.35"x3'-11 1/2"	ST303
	B	4	9"x0.135"x15'-2"	ST303
	C	2	9"x0.135"x13'-2 1/2"	ST303
	D	2	9"x0.135"x2'-	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST258
	DUS-2		3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST258
CONNECTION BAR	CB1	4	1" Ø x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2"x3/8"x8 1/2"	ST400
	P2	4	4 1/2"x.300"x0'-9"	ST400
	P3	4	4 1/2"x.300"x1'-0"	ST400

NO.	DATE	REVISION	BY

REF. DRWG

7-AB4 42	10-15-68
SA 124	10-11-68
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 4C(N)

PANEL 5R-J 3'-4" x 58'-7"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION FOR P.O.N.Y.A. — DATE 1/68

APPROVED FOR FABRICATION BY — FOR FABRICATOR — DATE

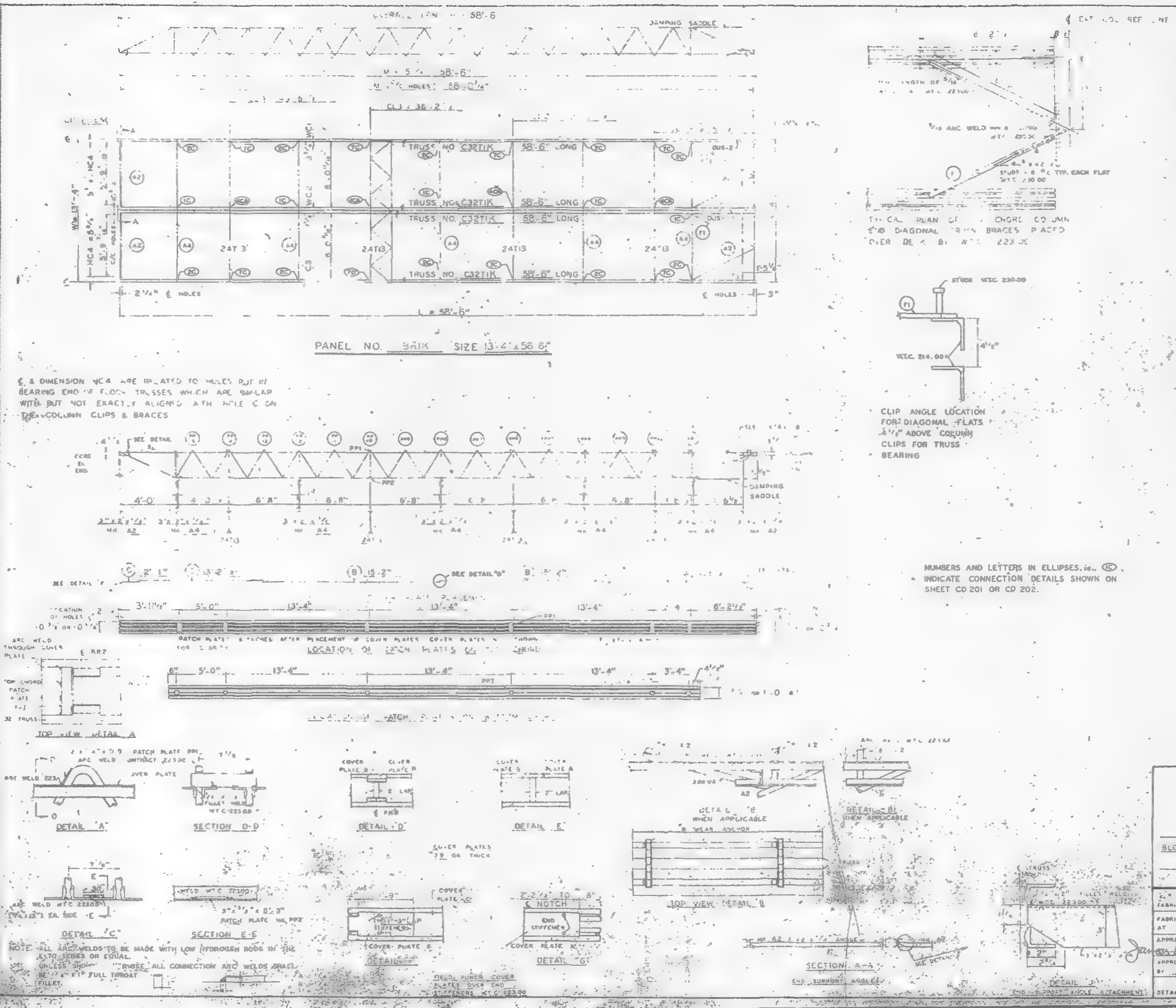
DETAILED BY

DESIGN DRAW NO. 7-AB2-6 7-22-68 — PLATE

DRAWN BY — DATE 7-22-68

CHECKED BY — DATE 7-22-68 — IN CHARGE OF

FABRICATION CONT. NO. W.T.C. 221 — SHEET NO.



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TA	4	C32T1K - 58'-6"	ST201
BRIDGING TRUSSES	T.3	4	24T13 - 13'-3"	ST218
3 x 2 x 1/4 ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST400
	PP2	12	3" x 3/8" x 0'-3"	ST400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303
	B	4	9" x .0135" x 16'-2"	ST303
	C	2	9" x .035" x 13'-2 1/2"	ST303
	D	2	9" x .035" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-8"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST400
	P2	4	4 1/2" x .39" x 0'-9"	ST400
	P3	4	4 1/2" x .390" x 1'-0"	ST400

NO.	DATE	REVISION	BY

REF DRWG

7 A84 3.3.1	1-3-68
7 A84 15,8 & 20	7-22-68
7 A84 42	10-6-68
5A 24	10-11-68
7 A84 2	1-3-68
7 A81-2	7-22-68
7 A82-B	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 46(N) + 45 46(S)

PANEL 9R1K - 13'-4" x 58'-6"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7 A83-2 7-22-68 PLATE

APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 11/1/68

DRAWN BY

DATE

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

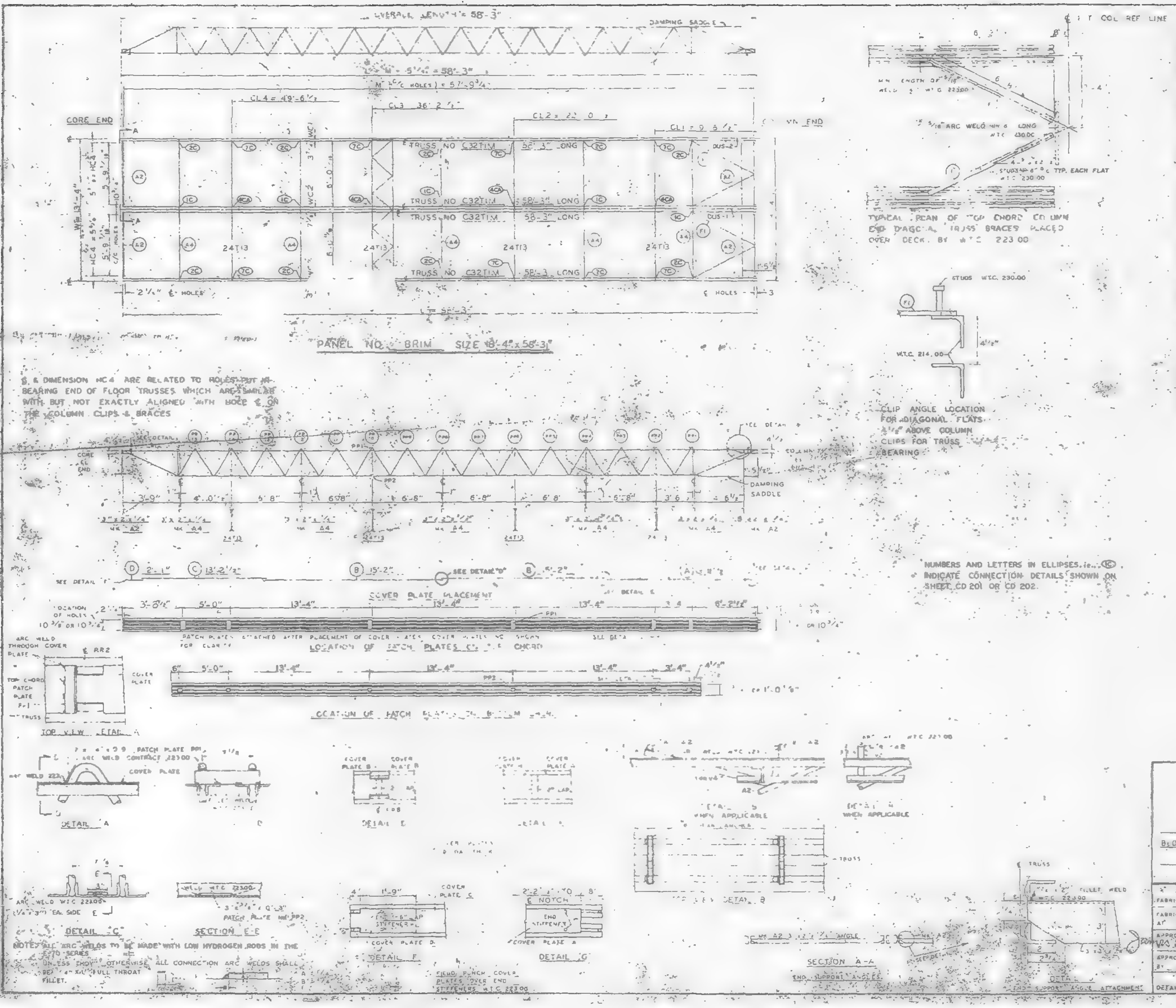
CHECKED BY T.M. CHURA DATE 7-22-68

IN CHARGE OF

DETAILED BY A.G. WEBER

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FD-R



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T.M	4	C32TIM 58'-3"	ST201
BRIDGING TRUSSES	T.3	4	24T13 - 13'-3"	ST213
3"x2"x¼" ANGLE	A2	4	3"x2"x¼"x5'-11⅜"	ST403
	A4	5	3"x2"x¼"x13'-3"	ST403
DIAGONAL FLATS	F1	4	1½"x⅝"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x¼"x0'-9"	ST400
	PP2	12	3"x⅜"x0'-3"	ST400
COVER PLATES	A	2	9"x0.135"x13'-1½"	ST303
	B	4	9"x0.135"x15'-2"	ST303
	C	2	9"x0.135"x13'-2½"	ST303
	D	2	9"x0.135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x½"x¼"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2	5	#8 REBAR x 3'-5"	ST400
DAMPING SADDLE	DUS-1	1	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2		3½"x3½"x⅜"x3'-5⅞"	ST298
CONNECTION BAR	CB1	4	1⅞"x1'-3"	ST400
CONNECTION PLATES	P1	5	3½"x⅜"x8½"	ST400
	P2	[illegible]	4½"x.390"x0'-9"	ST400
	P3	4	4½"x.390"x1'-0"	ST400

NO.	DATE	REVISION

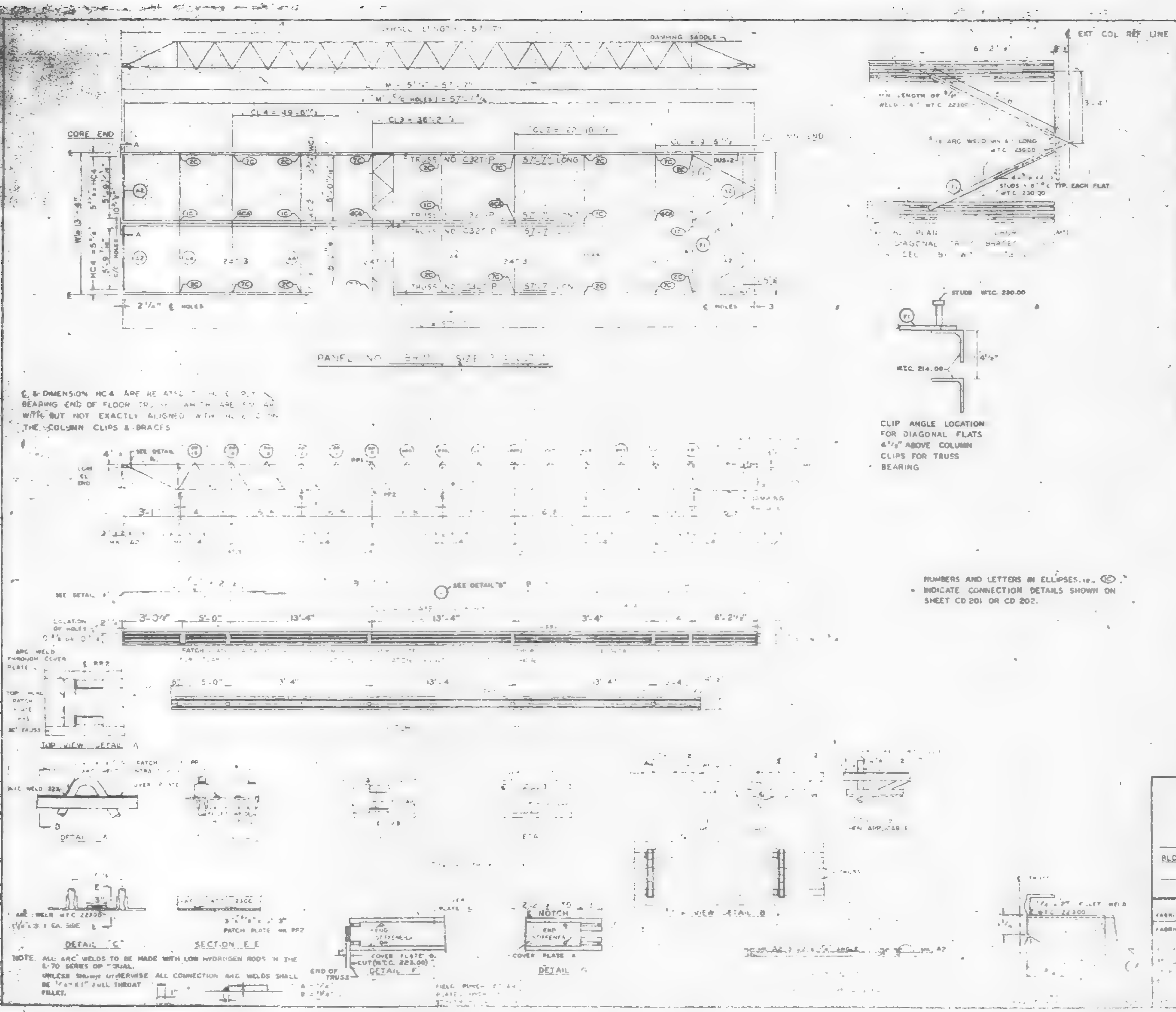
REF DRWG
7 AB4 3.3 — 1-3-68
7 AB4 13,14,&22 — 7-22-68
7 AB4 42 — 10-15-68
[illegible] 14 — 10-11-68
7-AB4-2 — 1-3-68
7-AB1-2 — 7-22-68
7 AB2 B — 7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 72-73

PANEL 9RIV 13'-4" x 58'-3"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5 ... 22-66 PLATE
APPROVED FOR FABRICATION [signature] FOR P.O.N.Y.A. DATE 1/11/68
DRAWN BY [illegible] DATE [illegible]
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE [illegible]
CHECKED BY [illegible] DATE [illegible]
IN CHARGE OF [illegible]
DETAILED BY [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET [illegible]



REQUIRED MATERIAL				
MATERIAL	MK.	PCS.		
FLOOR TRUSSES	T.2	4	[illegible]	[illegible]
BRIDGING TRUSSES	T.3	4	24T3 [illegible]	[illegible]
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-1"	[illegible]
	A4	3	3"x2"x1/4"x13'-3"	ST 400
DIAGONAL FLATS	F	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	2"x1/4"x0'-0"	ST 400
	PP2	12	3"x1/4"x0'-3"	ST 400
COVER PLATES	A	2	9"x 0.135"x 13'-1 1/2"	ST 30A
	B	4	9"x 0.135"x 13'-2"	ST 30A
	C	2	9"x 0.135"x 13'-2 1/2"	ST 30A
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	5	#8 REBAR x 3'-5"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 1/2"	[illegible]
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 1/2"	[illegible]
CONNECTION BAR	CB1	4	1"Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/4" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .90" x 0'-8"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG

7-AB4-3,3,1	1-3-68
7-AB4-15,16&20	7-22-68
7-AB4-42	10-15-68
SA-124	10-11-68
7-AB1-2	1-3-68
7-AB1-2	7-22-68
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 74-

PANEL BRIP - 13'-4" x 57'-7"

FABRICATION BY LACLEDE STEEL COMPANY

DESIGN DRAWING NO. 7-22-68 DATE

11/1/68

DATE 10-22-68

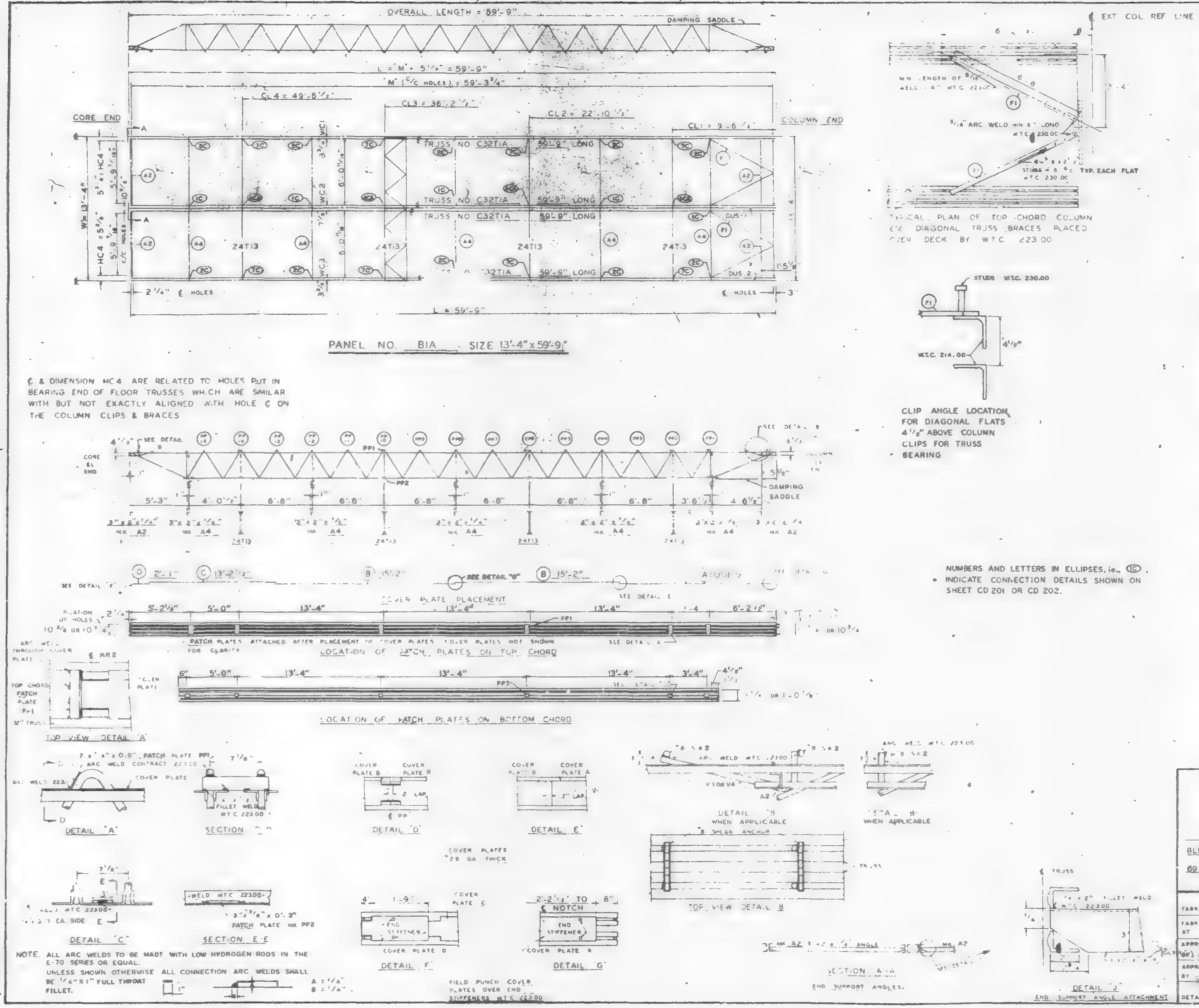
CHECKED BY T.M.CHURA

DATE 10-22-68

IN CHARGE OF PROD. DEV.

WT. 221

SHEET FP-R1



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T1A	4	C32T1A - 59'-9"	ST201A
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4 x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST402
PATCH PLATES	PP1	12	2"x 1/4" x 0-9"	ST 400
	PP2	12	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0.35" x 3'-1 1/2"	ST303
	B	4	9" x 0135 x 15'-2	ST303
	C	2	9" x .0135" x 13'-2 1/2	ST303
	D	2	9" x .0135" x 2'-1	ST303
ANGLE CLIPS	C1	15	2"x 1 1/2"x 1/4"x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0-9	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x 3/8"x 3'-8 7/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8 x 3-8 7/8	ST298
CONNECTION BAR	CB1	4	1 # x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

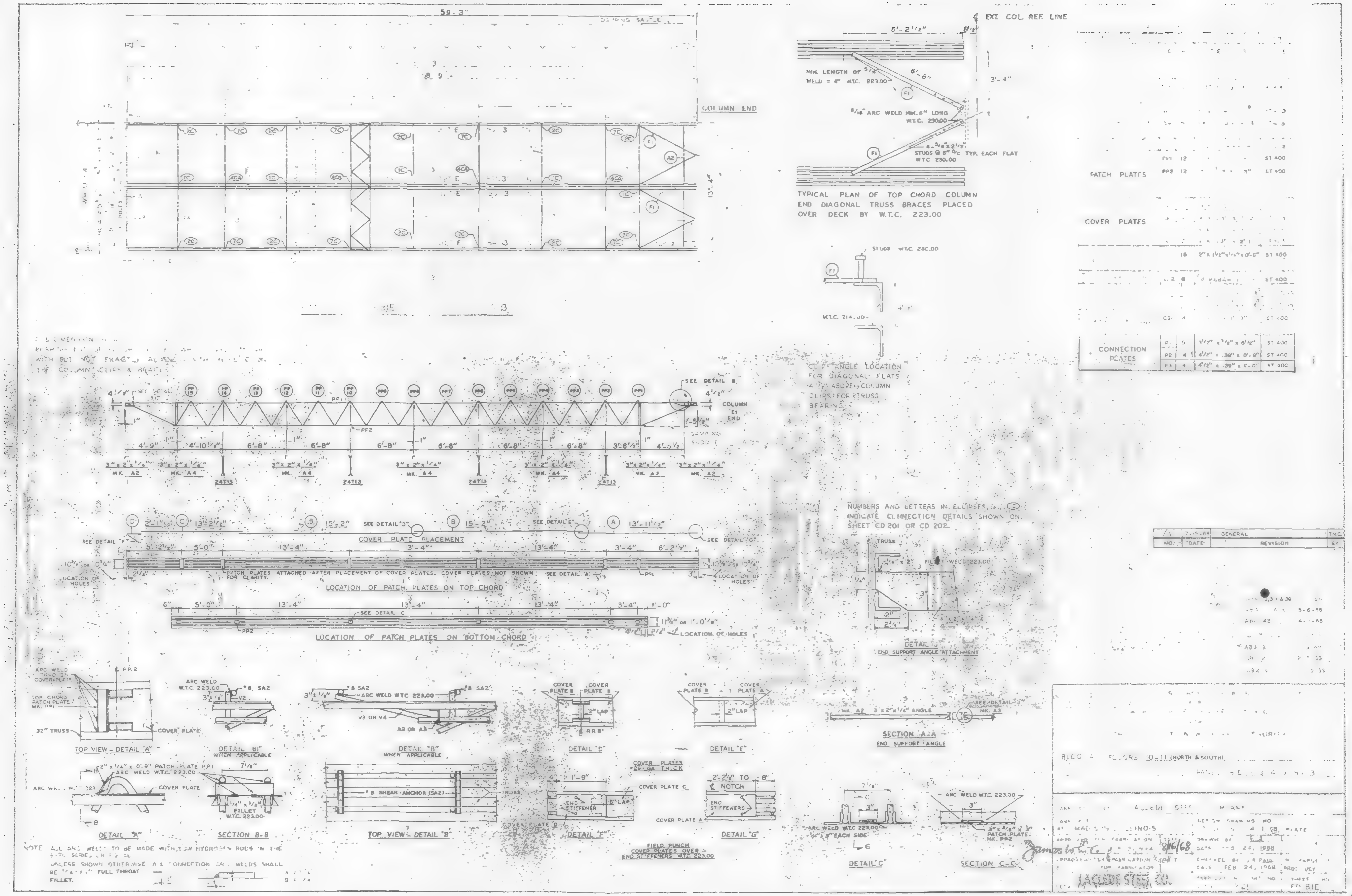
NO.	DATE	REVISION	BY
1	7-15-68	GENERAL	T.M.C.

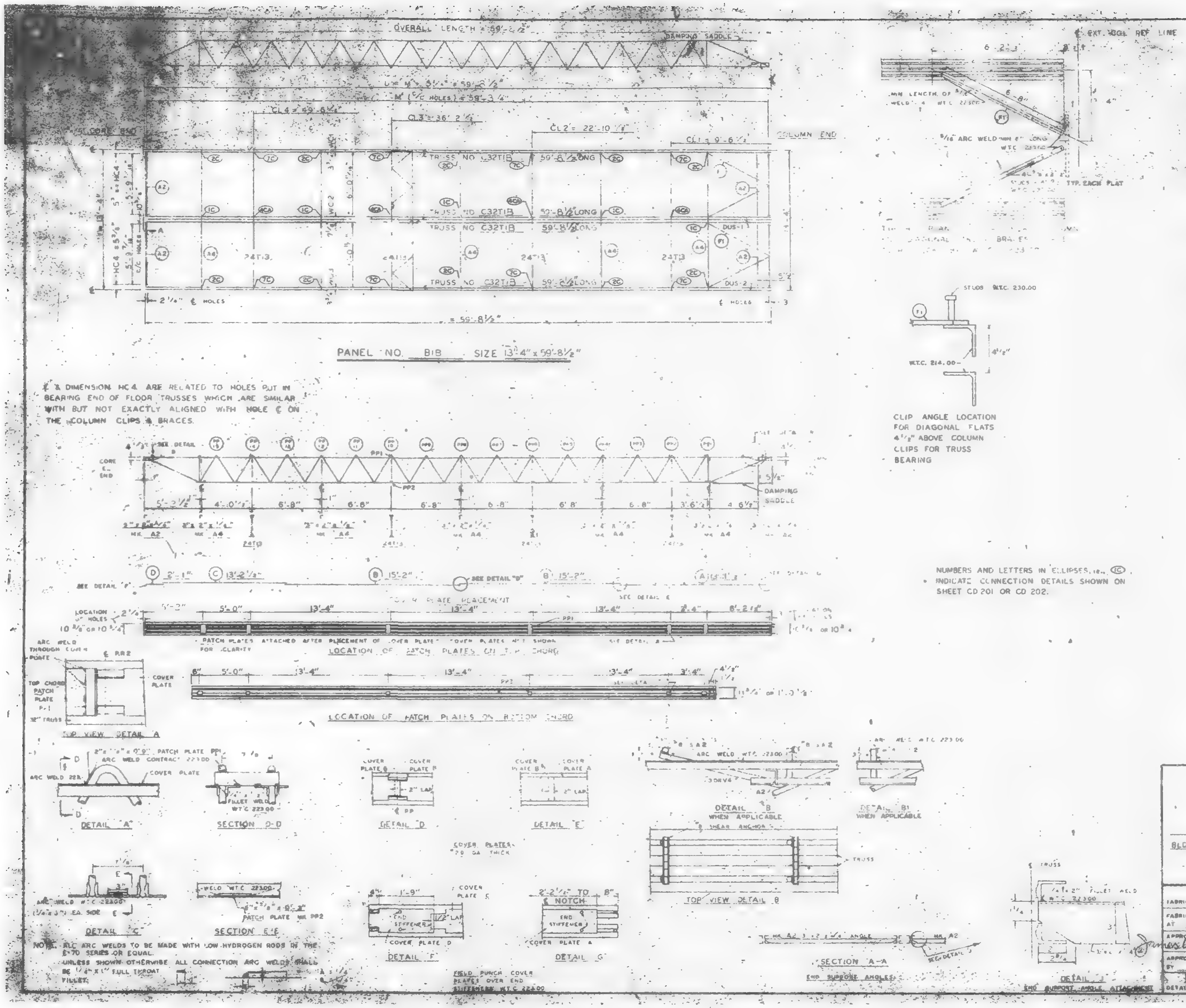
REF DRWG
7-AB4-3,3,1&38 1-4-68
7-AB4-15&16 5-8-68
7-AB4-42 4-1-68
SA-124 10-20-67
7-AB3-2 1-3-68
7-AB1-2 2-5-68
7-AB2-8 2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH) 49-58, 60-66, 68
69 (NORTH) PANEL B1A - 13'-4" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-5 4-1-68 PLATE
APPROVED FOR FABRICATION FOR PONYA DATE 8/16/68
DRAWN BY DATE FEB 24, 1968
APPROVED FOR FABRICATION BY [redacted] FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE FEB 24, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT WTC 221
SHEET NO FP B1A


EXT. COL. REF. LINE
COLUMN END
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
PATCH PLATES
COVER PLATES
CONNECTION PLATES
NUMBERS AND LETTERS IN ELLIPSES INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
END SUPPORT ANGLE ATTACHMENT
SECTION A-A
END SUPPORT ANGLE
TOP VIEW - DETAIL "A"
DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "A"
SECTION B-B
TOP VIEW - DETAIL "B"
DETAIL "F"
DETAIL "G"
DETAIL "C"
SECTION C-C
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
GENERAL
REVISION
LACLEDE STEEL CO.



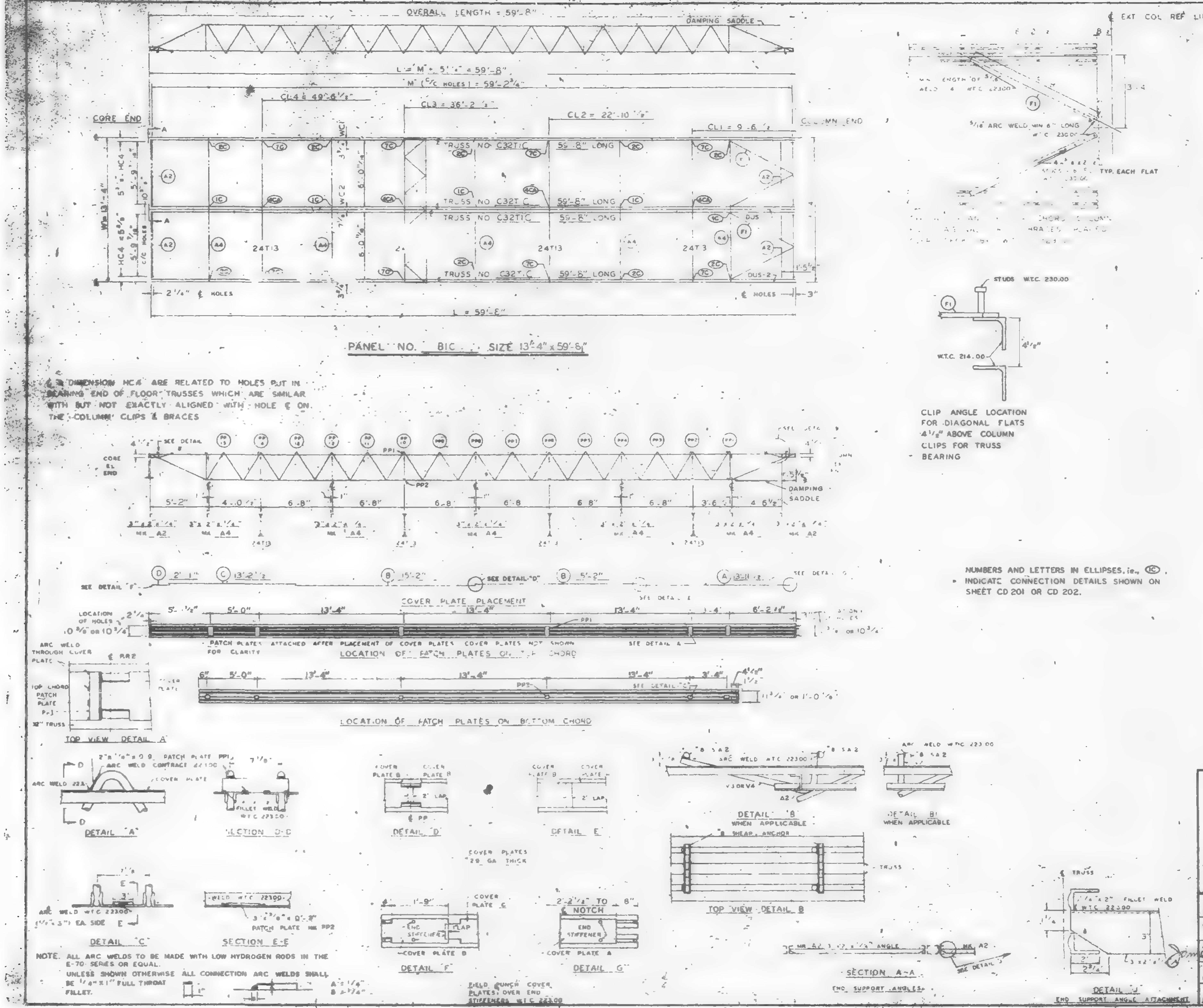
REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1B	4	C32T1B - 59'-8 1/2"	ST 201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 218
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-1 1/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
DIAGONAL FLATS	F1	4	[illegible]	ST 402
PATCH PLATES	PP1	12	[illegible]	ST 400
	PP2	12	[illegible]	ST 400
[illegible]	[illegible]	[illegible]	[illegible]	ST 303
	[illegible]	[illegible]	[illegible]	ST 303
	[illegible]	[illegible]	[illegible]	ST 303
	[illegible]	[illegible]	[illegible]	ST 303
[illegible]		[illegible]	[illegible]	ST 400
[illegible]	SA2	8	[illegible]	ST 400
[illegible]	DUS 1	[illegible]	[illegible]	ST 298
	DUS 2	[illegible]	[illegible]	ST 298
CONNECTION BAR	CB1	4	[illegible]	ST 400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 8 1/8"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO	DATE	REVISION	BY

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 83-91, 93-106 (N)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 10/23/68
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED BY
DESIGN DRAWING NO.
DRAWN BY DATE 1968
CHECKED BY DATE 5, 1968
IN CHARGE OF
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP B1B



HC4 DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1C	4	C32T1C - 59'-1/8"	ST201C
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3 x 2 1/2 x 1/4 ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST403
	A4	5	3" x 2" x 1/4 x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2 x 4" x 0'-9	ST 400
	PP2	12	3 x 3/8 x 0'-3'	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2 x 3 1/2 x 3/8 x 3'-6 7/8"	ST298
	DUS 2	1	3 1/2 x 3 1/2 x 3/8 x 3'-6 7/8	ST298
CONNECTION BAR	CB1	4	1 ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-9"	ST 400
	P3	4	4 1/2" x .38" x 1'-0"	ST 400

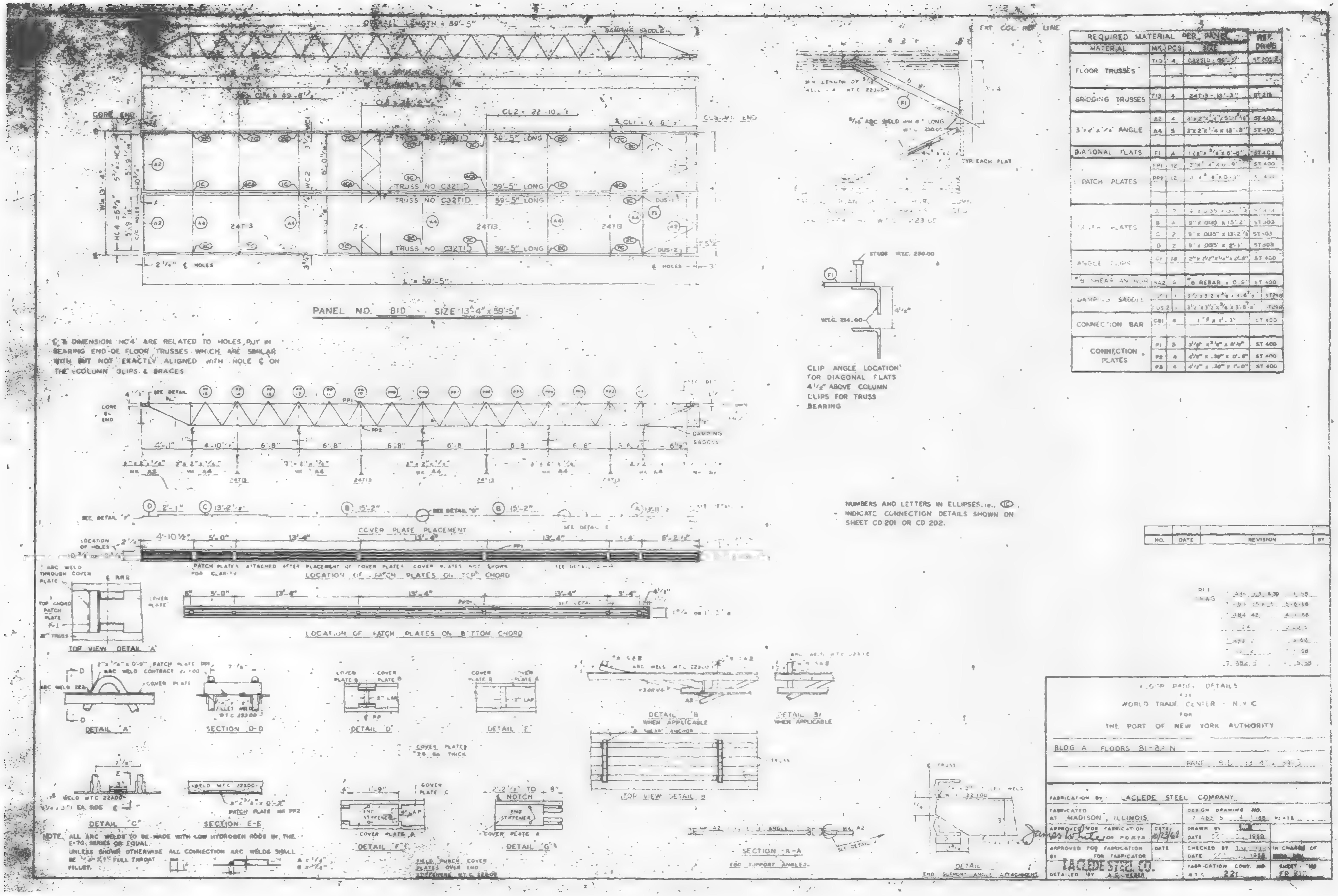
NO.	DATE	REVISION	BY

REF DRWG
7 AB4 -42 4-1-68
7 AB3 2 3 68
7 AB1 2 2 68
7 AB2 8 2 15 68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 49-58, 60-66, 68-74, 79 [illegible]
PANEL B1C - 13'-4" x 59'-6"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 AB3-5 4-1-68 PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. — DATE 10/23/68
DRAWN BY — DATE OCT 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE
CHECKED BY — DATE 1968
IN CHARGE OF
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP B1C



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T1D	4	C32T1D - 59'-5"	ST 201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 5/16"	ST 403
	A4	5	3"x2"x1/4"x13'-8"	ST 403
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	12	2"x 1/4"x 0'-9"	ST 400
	PP2	12	[illegible] x 0'-3"	ST 400
[illegible] PLATES	A	2	9" x .035 x [illegible]	[illegible]
	B	4	9" x .035 x 15'-2"	ST 403
	C	2	9" x .035" x 13'-2 1/2"	ST 403
	D	2	9" x .035" x 2'-1"	ST 403
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#5 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-5"	ST 400
DAMPING SADDLE	US1	1	3 1/2 x 3 1/2 x 3/8 x 3'-6 7/8	ST 298
	US2	1	3 1/2 x 3 1/2 x 3/8 x 3'-6 7/8	ST 298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/8" x 3/8" x 8 1/8"	ST 400
	P2	4	4 1/2" x .30" x 0'-8"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

FLOOR PANEL DETAILS

FOR

WORLD TRADE CENTER - N.Y.C.

FOR

THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 81-82 N

PANEL B1D 13'-4" x 59'-5"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7 483 5 4 1-68 PLATE

APPROVED FOR FABRICATION James White FOR PONYA DATE 10/23/68

DRAWN BY [illegible] DATE [illegible] 1968

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

LACLEDE STEEL CO.

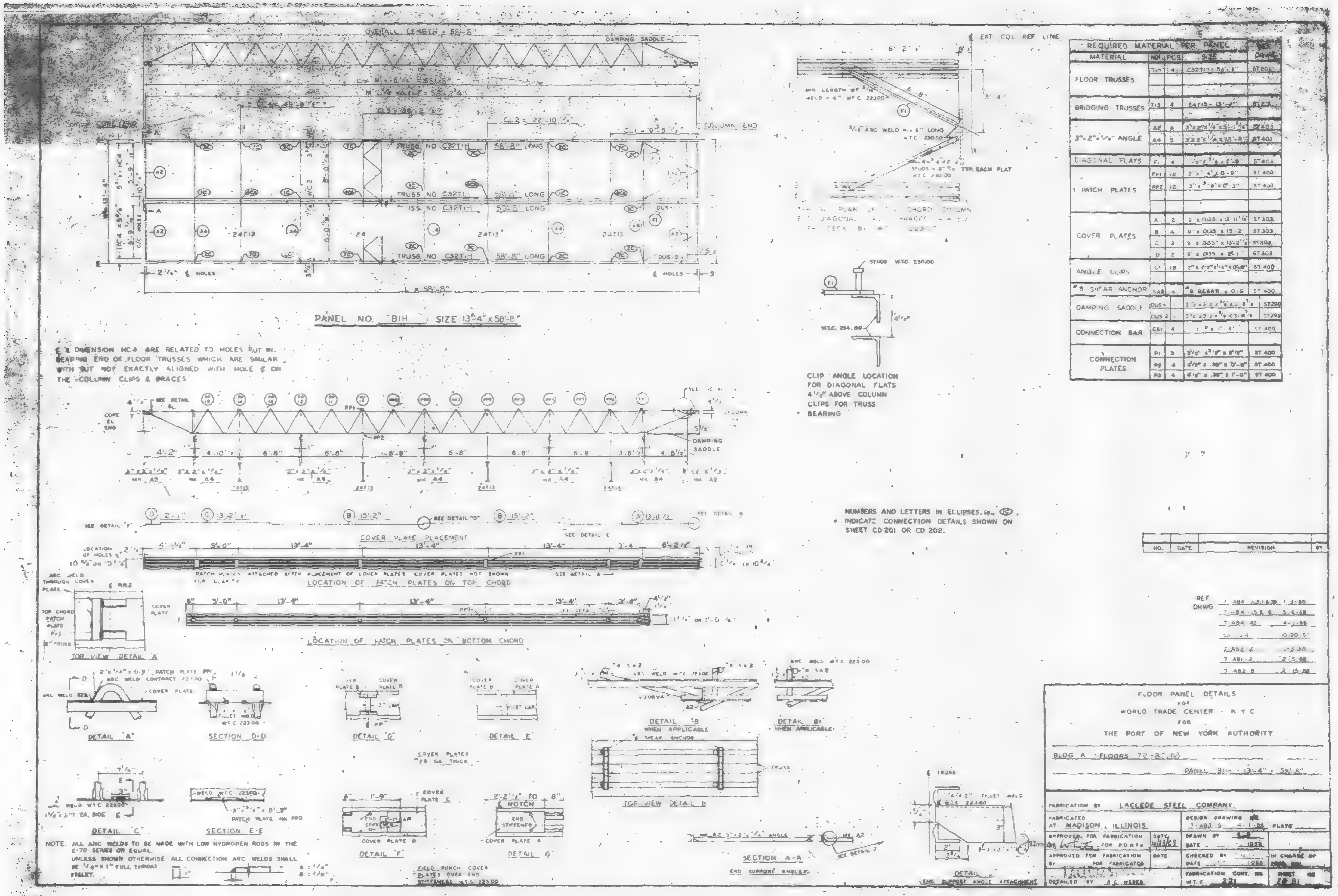
CHECKED BY [illegible] DATE [illegible] 1968

IN CHARGE OF [illegible]

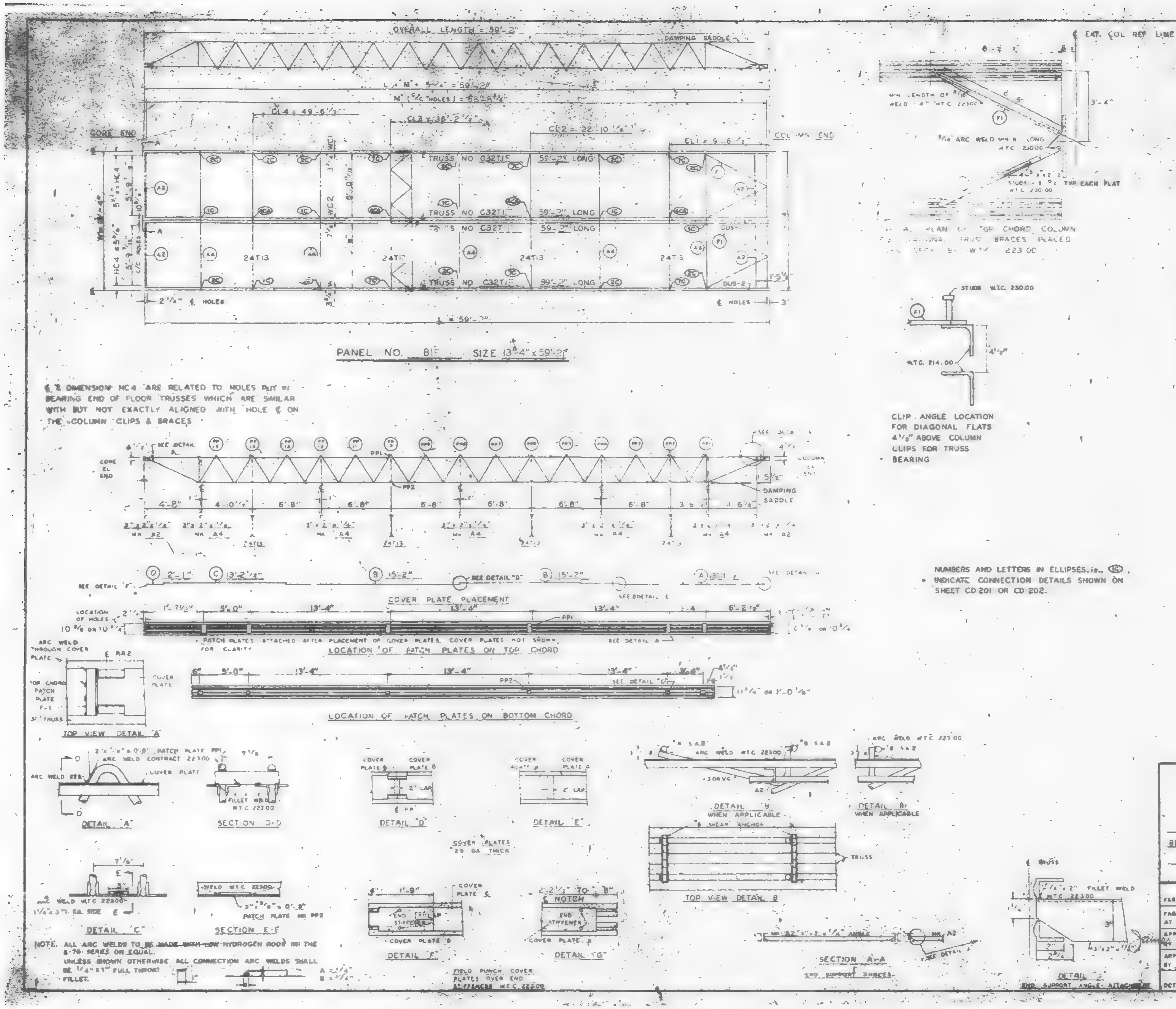
DETAILED BY A.C. WEBER

FABRICATION CONT. NO. WTC 221

SHEET NO. FP 81D



REQUIRED MATERIAL PER PANEL				SEE DRWG
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1H	(4)	C32T1H - 58'-8"	ST201b
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST213
3" x 2" x 1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4"x12'-8"	ST403
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 8'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x 0.135" x 13'-11 1/2"	ST 303
	B	4	9" x 0.135 x 15'-2"	ST 303
	C	2	9 x 0.135" x 13'-2 1/2"	ST303
	D	2	9" x 0.135 x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-6	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2 x 3 1/2 x 3/8 x 3'-6 7/8	ST298
	DUS 2	1	3 1/2 x 3 1/2 x 3/8 x 3'-6 7/8	ST298
CONNECTION BAR	CB1	4	1 Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/8" x 3/8" x 8 1/8"	ST 400
	P2	4	4 1/8" x .30" x 0'-8"	ST 400
	P3	4	4 1/8" x .30" x 1'-0"	ST 400



REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T1F	4	C32T1F - 59'-3"	ST 201
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST 213
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
DIAGONAL FLATS	F1	4	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST 303
	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPIN SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 200
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 200
CONNECTION BAR	CB1	4	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG

7-AB4-3,3,1 & 39	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-42	4-1-68
SA-24	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-5-68
7-AB2-8	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 47-48(S), 47-48, 70-71(N)

PANEL B1F - 13'-4" x 59'-2"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-5 4-1-68 PLATE

APPROVED FOR FABRICATION BY James White FOR PONYA — DATE 10/23/68

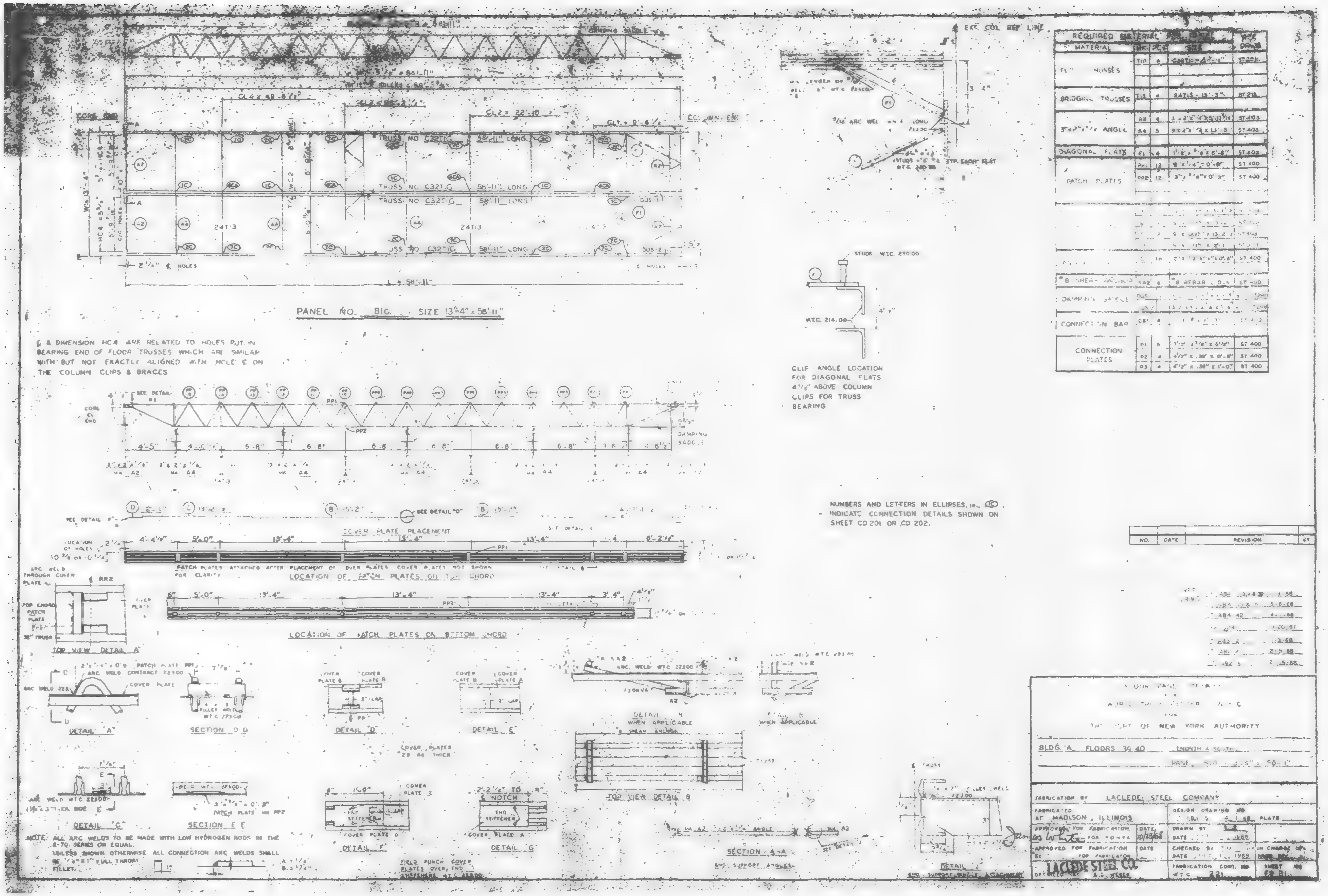
DRAWN BY — DATE 1968

APPROVED FOR FABRICATION BY — FOR FABRICATOR — DATE

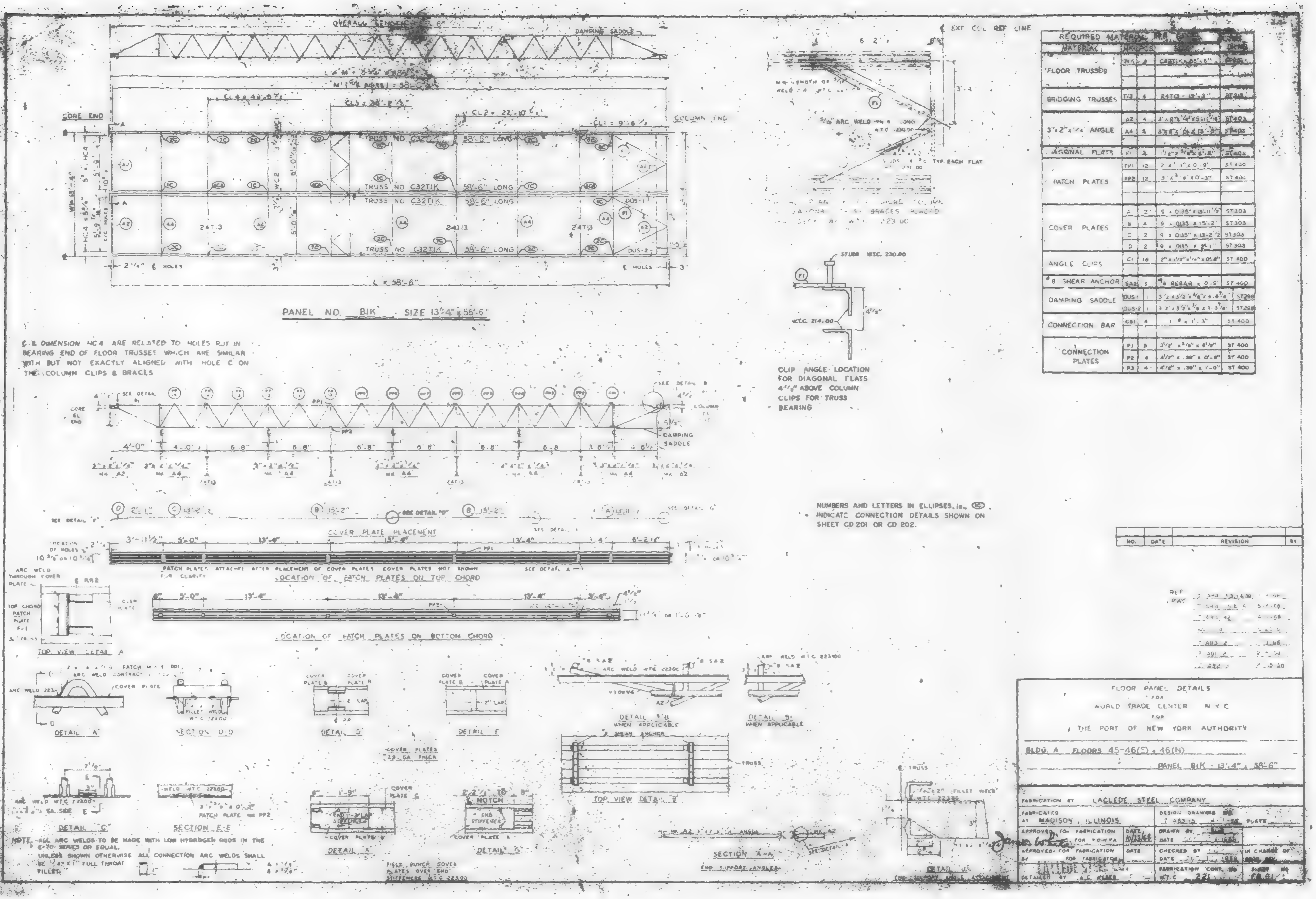
CHECKED BY — DATE 1968 — IN CHARGE OF

DETAILED BY A.C. WEBER

FABRICATION CONT. NO. W.T.C. 221 — SHEET NO. B1



REQUIRED MATERIAL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1G	4	C32T1G - 58'-11"	ST 201G
BRIDGING TRUSSES	T13	4	B4T13 - 13'-3"	BT 213
3"x2"x1/4" ANGLE	A8	4	3 - 2"x1/4"x5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4" x 13'-3"	ST 403
DIAGONAL FLATS	S1	4	[illegible]	ST 402
PATCH PLATES	PP1	12	[illegible] x 0'-8"	ST 400
	PP2	12	3" x [illegible] x 0'-3"	ST 400
[illegible]	[illegible]	16	[illegible] x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR [illegible]	ST 400
DAMPING SADDLE	DUS	[illegible]	[illegible]	[illegible]
CONNECTION BAR	CB1	4	[illegible]	[illegible]
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-8"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400



REQUIRED MATERIAL

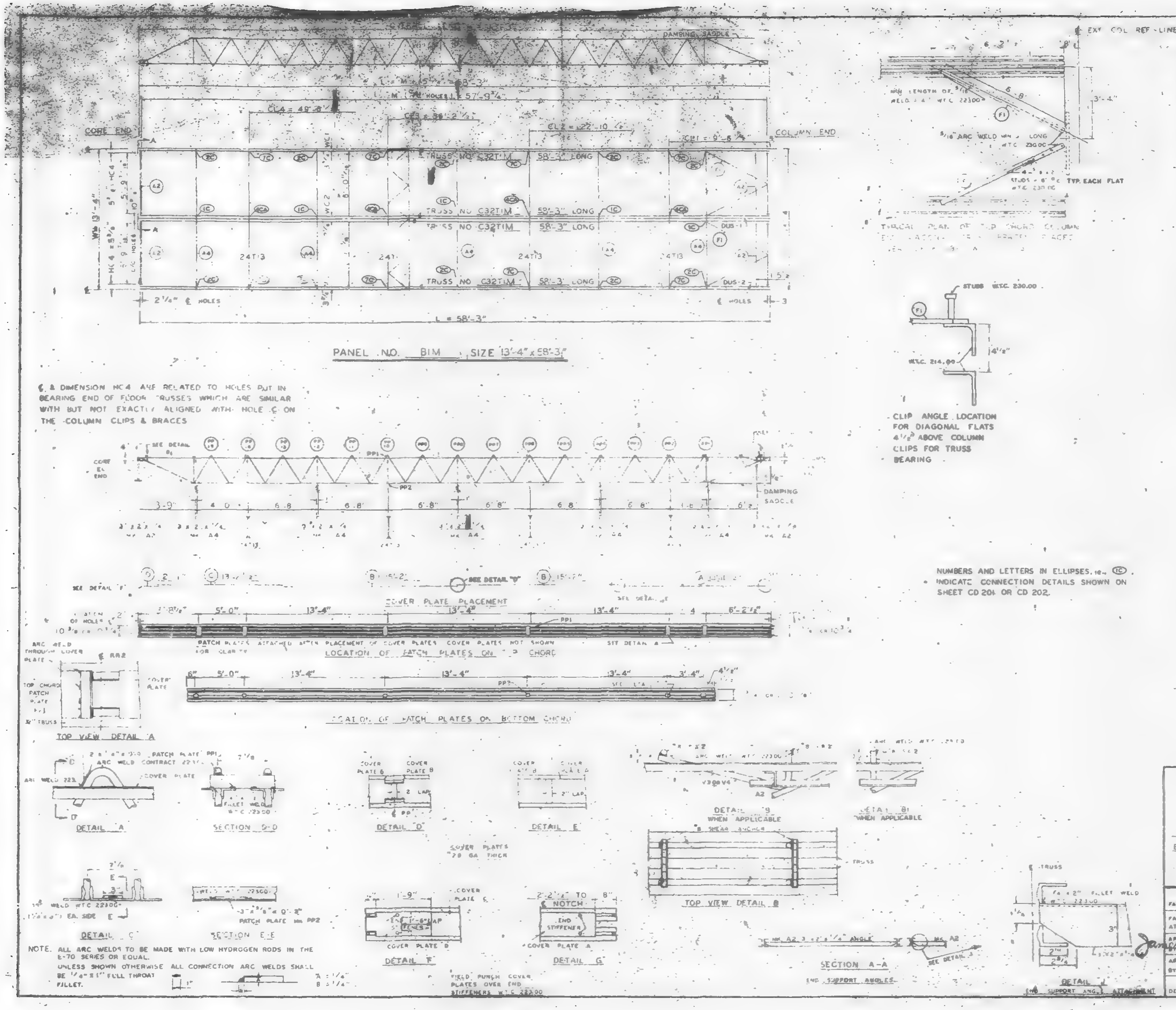
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES		4	C32T1K x 58'-6"	
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	ST215
3" x 2" x 1/4" ANGLE	A2	4	3" x 2" x 1/4" x 5'-11 3/16"	ST403
	A4	5	3" x 2" x 1/4" x 13'-9"	ST403
DIAGONAL FLATS	F1	2	1 1/2" x 3/8" x 6'-8"	ST402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	2	9 x 0.135" x 13'-11 1/2"	ST303
	B	4	9 x 0.135 x 15'-2"	ST303
	C	2	9 x 0.135" x 13'-2 1/2"	ST303
	D	2	9 x 0.135 x 2'-1"	ST303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-3 7/8"	ST298
CONNECTION BAR	CB1	4	1" ϕ x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 45-46(S) & 46(N)
PANEL B1K - 13'-4" x 58'-6"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 AB3-5 4-7-66
APPROVED FOR FABRICATION FOR PONYA DATE 10/23/68
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DRAWN BY DATE OCT 1968
CHECKED BY DATE OCT 1968
IN CHARGE OF
DETAILED BY A.C. KLAKA
FABRICATION CONT. NO. WTC 221
SHEET NO. FB B1K



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T1M	4	C32T1M - 58'-3"	ST 201M
BRIDGING TRUSSES	T.3	4	24T13 13'-3"	ST 213
3"x2"x1/4 ANGLE	A2	4	3"x2"x1/4"x5-11 9/16"	ST 403
	A4	5	3"x2"x1/4 x 13'-3"	ST 403
DIAGONAL FLATS	F	4	[illegible]	ST 402
PATCH PLATES	PP1	12	[illegible]	ST 400
	PP2	12	[illegible] x 0'-3"	[illegible]
[illegible]	A	4	[illegible]	[illegible]
	B	[illegible]	9 x 0.35 x 5'-2	[illegible]
	C	2	9 x 0.45 x 3'-2	ST 303
	D	2	9 x 0.35 x 2'-1	[illegible]
ANGLE [illegible]	[illegible]	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	[illegible]	[illegible]	#8 REBAR x [illegible]	ST 400
DAMPING SADDLE	DUS-1	[illegible]	[illegible]	ST 298
	DUS 2	[illegible]	[illegible]	[illegible]
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-9"	ST 400
	P3	4	4 1/2" x .38" x 1'-0"	ST 400

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

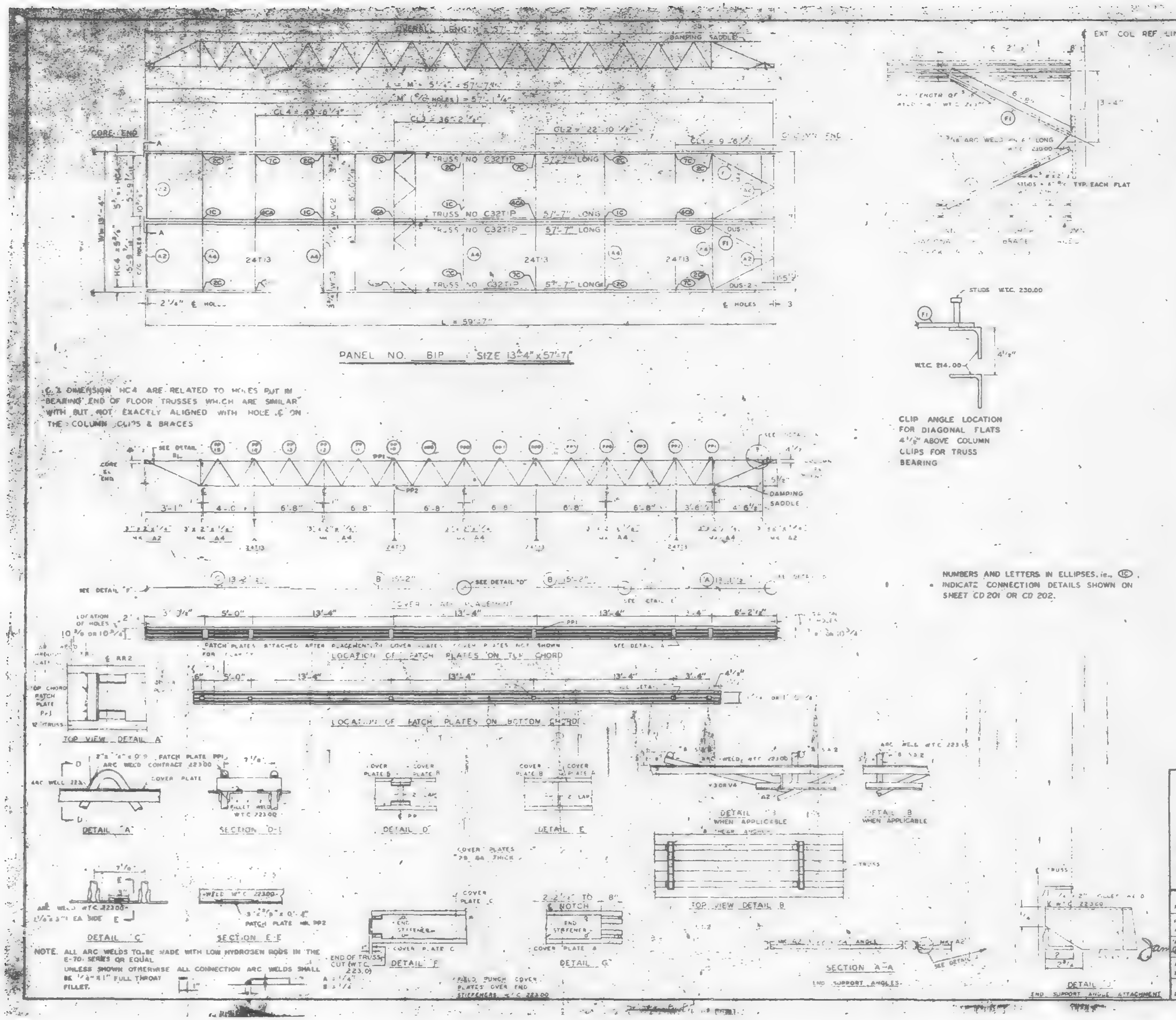
NO.	DATE	REVISION	BY

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 72-73 [illegible]

PANEL B1M - 13'-4" x [illegible]

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible] PLATE [illegible]
APPROVED FOR FABRICATION BY James White FOR PONYA — DATE 10/23/68
DRAWN BY [illegible] DATE [illegible] 1968
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR — DATE
CHECKED BY [illegible] DATE [illegible] 1968
IN CHARGE OF PROD. [illegible]
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP B1 [illegible]



C.C. DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1P	4	C32T1 - 5[illegible]	ST201P
BRIDGING TRUSSES	T13	4	24T13 13'-3"	BT213
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3x2x1/4x13'-3"	ST403
DIAGONAL FLATS	F	4	[illegible]x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/4"x0'-3"	ST400
[illegible] PLATES	A	2	9"x0.35x13'-11 1/2"	ST303
	B	4	8"x0.35x15'-2	ST303
	C	2	9"x0.35"x13'-2 1/2"	ST303
	D	2	9"x0.35"x2'-1	ST303
ANGLE CLIPS	C	16	2"x1 1/2"x1/4"x0'-6"	ST400
#8 SHEAR ANCHOR	SA2		#8 REBAR x 0'-9	ST400
DAMPING SADDLE	DUS-1	[illegible]	3 1/2x3 1/2x3/8x3'-5 7/8"	ST295
	DUS-2	[illegible]	3 1/2x3 1/2x3/8x3'-6 7/8"	ST295
CONNECTION BAR	CB1	4	1"x1'-3"	ST400
CONNECTION PLATES	P1	8	3 1/2" x 3/8" x 8 1/2"	ST400
	P2	4	4 1/2" x .30" x 0'-9"	ST400
	P3	4	4 1/2" x .30" x 1'-0"	ST400

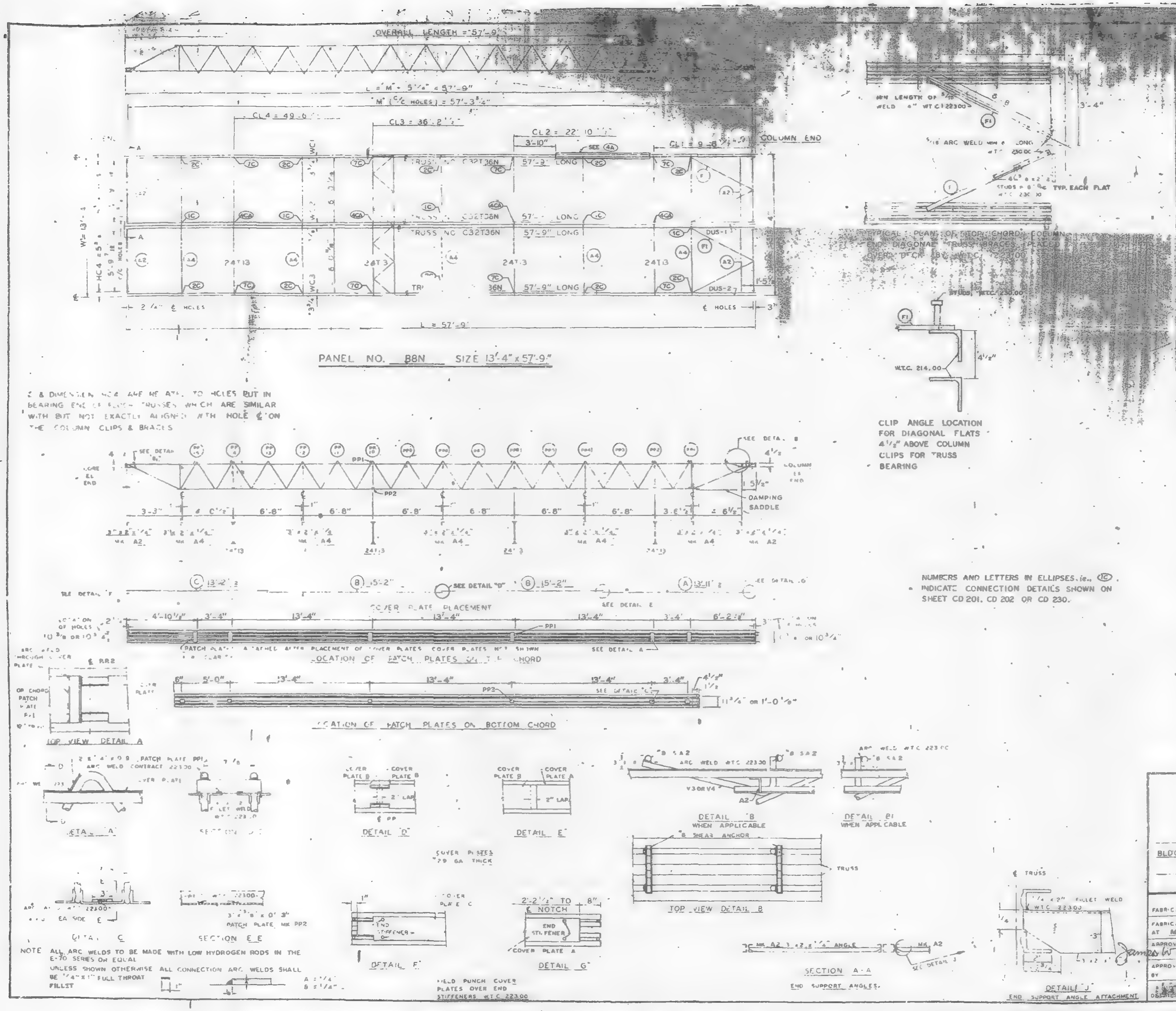
NO.	DATE	REVISION	BY

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 74(N)

PANEL 81P - [illegible] 57-7

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible] PLATE
APPROVED FOR FABRICATION FOR PONYA DATE 10/23/68
DRAWN BY [illegible] DATE OCT 15, 1968
APPROVED FOR FABRICATION BY FOR CONTRACTOR DATE
CHECKED BY T M CHURA DATE [illegible] 1968
IN CHARGE OF PROD. DIV.
DETAILED BY A.E. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FD 81P



MATERIAL PER PANEL	MK.	PCS.	SIZE	REF. DRWG
FLOOR TRUSSES	T36N	4	C32T36N - 57'-9"	ST 236N
BRIDGING TRUSSES	T13	4	24T13 13'-5"	ST 213
3"x2"x1/4 ANGLE	A2	4	3"x2"x1/4"x5'-1 9/16"	ST 403
	A4	5	3"x2"x1/4x13'-3"	ST 403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x8'-6"	ST 402
PATCH PLATES	PP1	2	2"x1/4"x0'-9"	ST 400
	PP2	2	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	2	[illegible] x .0135" x 13'-11 1/2"	ST 303
	B	4	[illegible] x .0135" x 13'-2"	ST 303
	C	2	[illegible] x .0135" x 13'-2 1/2"	ST 303
ANGLE CLIPS	CL	16	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#4 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-5 7/8"	ST 298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1 1/4"Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	8	3 1/2"x3/8"x8 1/2"	ST 400
	P2	4	4 1/2"x.39"x0'-9"	ST 400
	P3	4	4 1/2"x.39"x1'-0"	ST 400

NO.	DATE	REVISION	BY

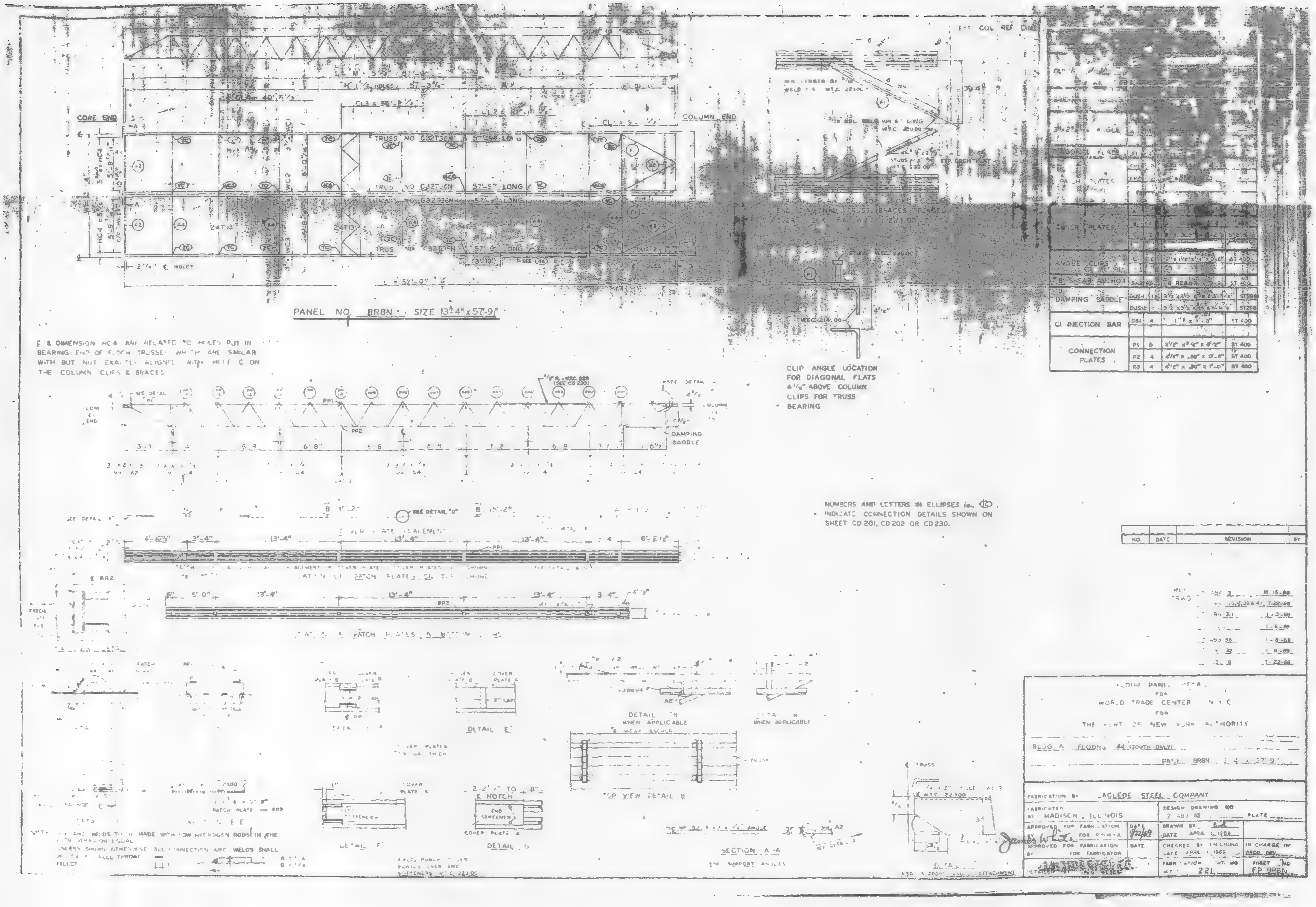
REF DRWG

- T AB4-3 — 10-15-68
- T AB4-15,16,39 & 41 — 7-22-68
- T AB4-3.1 — 1-3-68
- SA 24 — 1-6-69
- T AB3-34 — 1-6-69
- T AB1-32 — 1-6-69
- T AB4-8 — 7-22-68

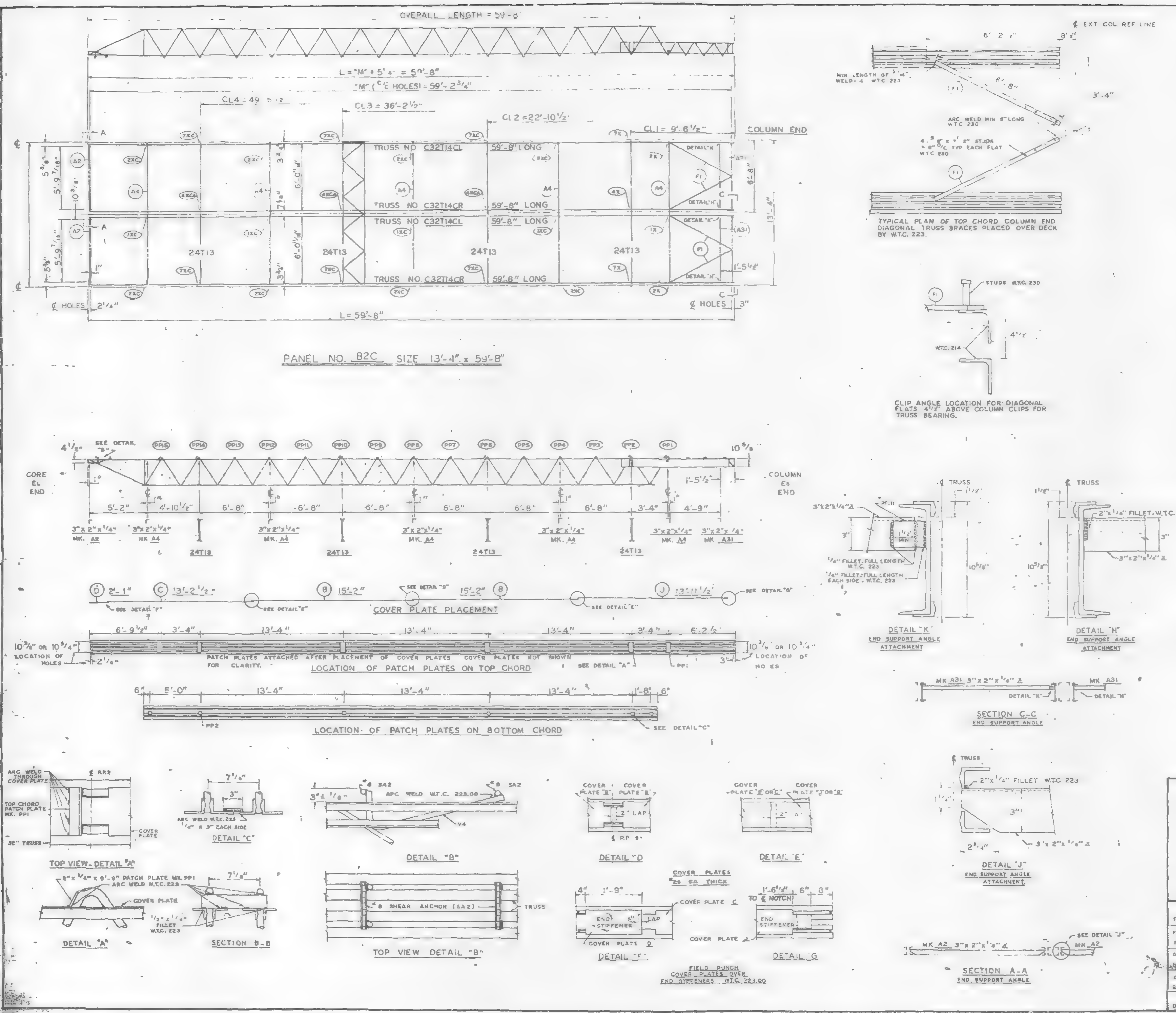
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 44 (SOUTH ONLY)
PANEL 88N - 13'-4" x 57'-9"

FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. T AB3-54 PLATE
APPROVED FOR FABRICATION James White FOR PONYA DATE 4/2/69
DRAWN BY — DATE APRIL 1, 1969
APPROVED FOR FABRICATION BY — FOR FABRICATOR DATE
CHECKED BY TM CHURA DATE APRIL 1, 1969
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO. WTC 221
SHEET NO. FP 88N



CORE END
COLUMN END
TRUSS NO C32T36N
TRUSS NO C32T36N 57'-9" LONG
PANEL NO. BR8N SIZE 13'-4" x 57'-9"
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES
DAMPING SADDLE
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
NUMBERS AND LETTERS IN ELLIPSES i.e. ⓒ INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 230.
ANGLE CLIPS
SHEAR ANCHOR
DAMPING SADDLE
CONNECTION BAR
CONNECTION PLATES
P1 5 3 1/2" x 3/8" x 6 1/2" ST 400
P2 4 4 1/2" x .30" x 0'-9" ST 400
P3 4 4 1/2" x .30" x 1'-0" ST 400
NO. DATE REVISION BY
DETAIL E
DETAIL G
SECTION A-A
WHEN APPLICABLE
FLOOR PANEL DETAIL
FOR
WORLD TRADE CENTER N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG A FLOORS 44 (SOUTH ONLY)
PANEL BR8N
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7 483 55
APPROVED FOR FABRICATION 4/22/69
DRAWN BY DATE APRIL 1, 1969
CHECKED BY TM CHURA DATE APRIL 1, 1969
IN CHARGE OF PROD. DEV.
221
SHEET NO FP BR8N



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-5"	ST 214CL
	T14CR	2	C32T14CR x 59'-[illegible]"	ST 214CL
BRIDGING TRUSSES	T13	4	24T13 x 13'-3"	ST 213
3"x 2"x 1/4" ANGLE	A2	2	3"x 2"x 1/4"x 5'-[illegible]	ST 403
	A4	5	[illegible]	ST 403
	A31	2	3"x 2"x 1/4"x 5'-[illegible] 8"	ST 410
CLOSURE PLATES	PF-11	2	3"x [illegible] x 0'-2 3/8"	ST 4[illegible]2
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-6"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	2	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/8"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/8"	ST 304
ANGLE CLIPS	C1	16	2"x 1 1/2"x.25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3[illegible]" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400
	P9	4	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

REF DRWG.

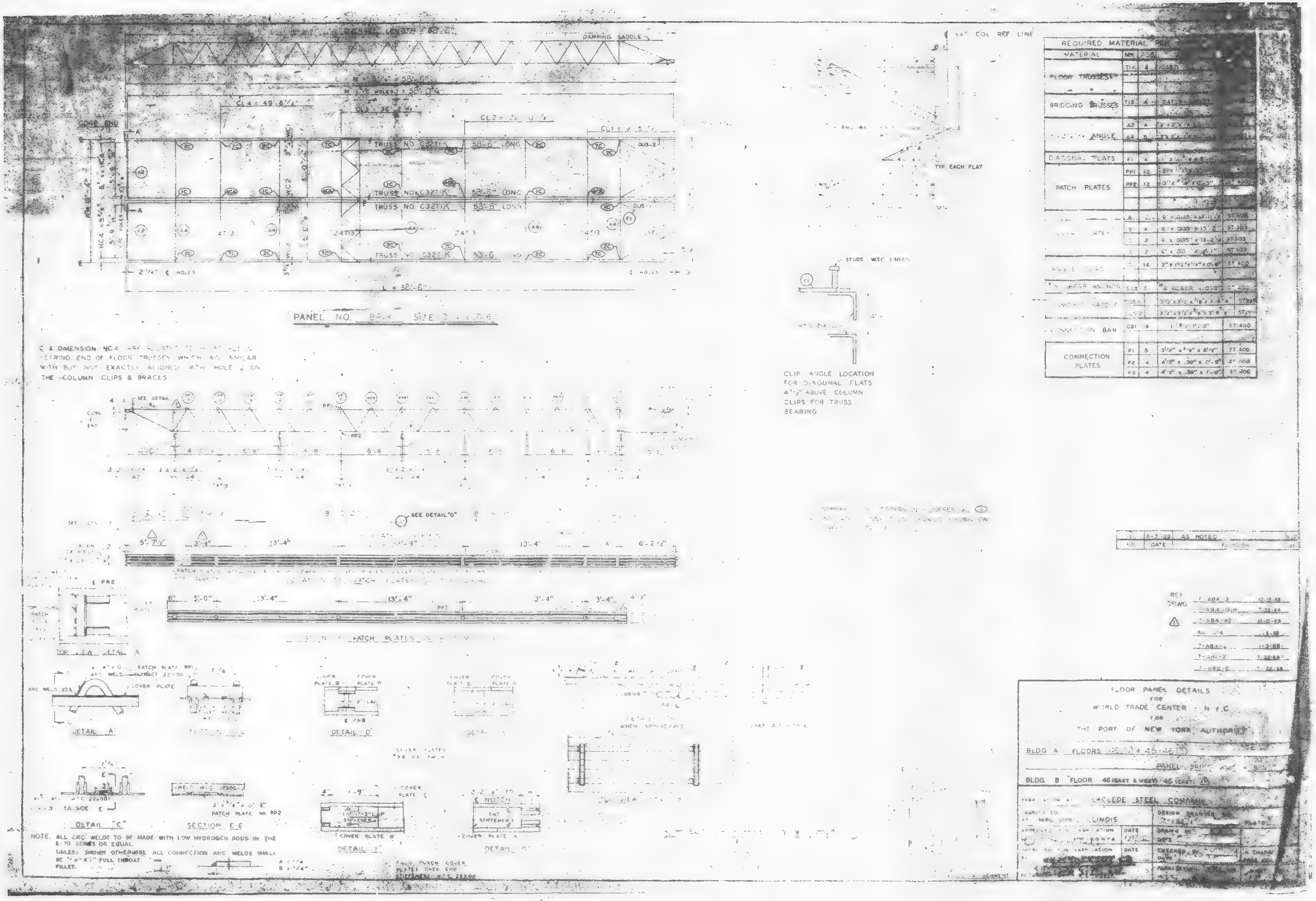
7-AB3-26	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-28	7-22-68
SA-124	10-11-68
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

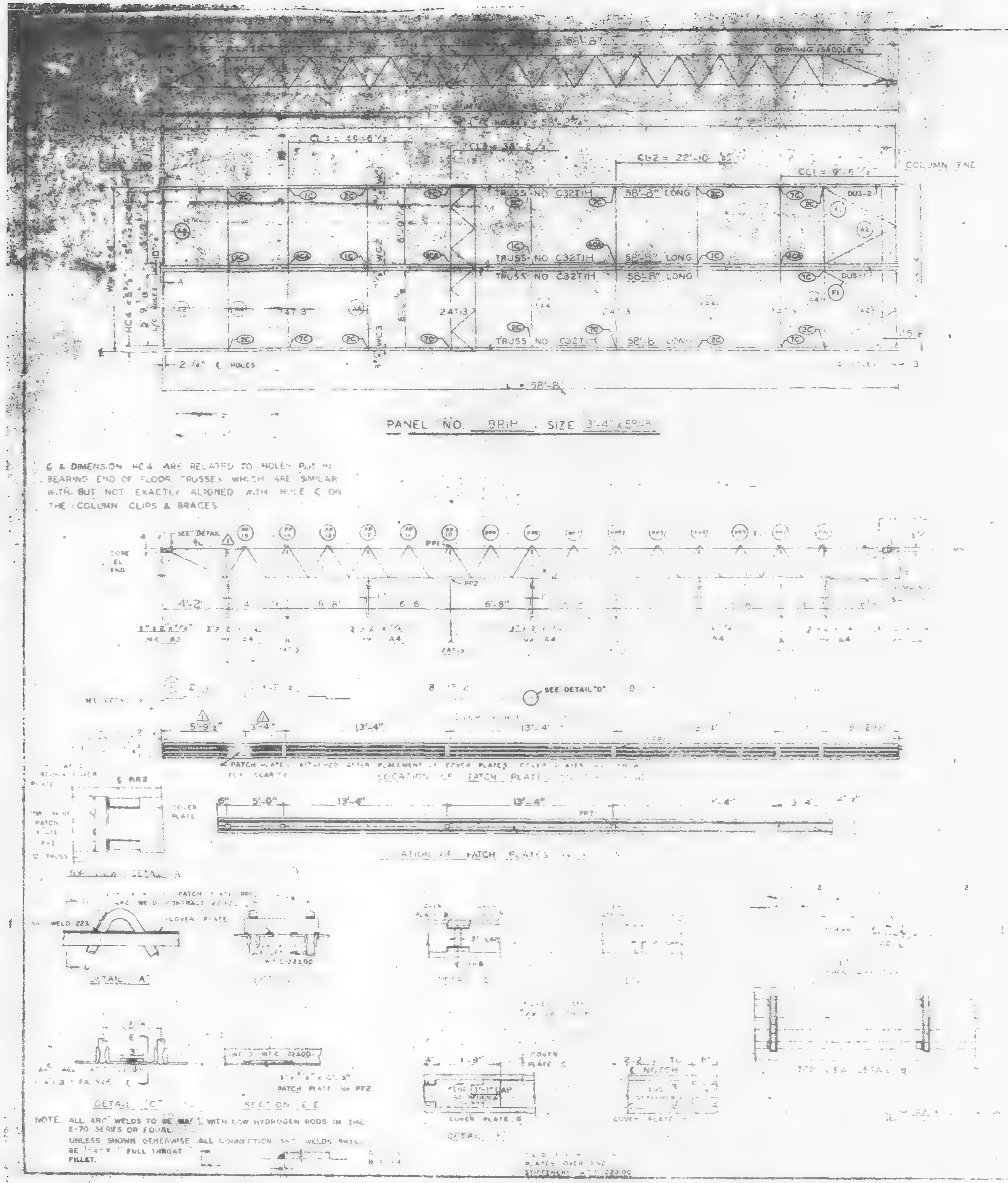
BLDG. A FLOORS 59 & 92 (SOUTH)

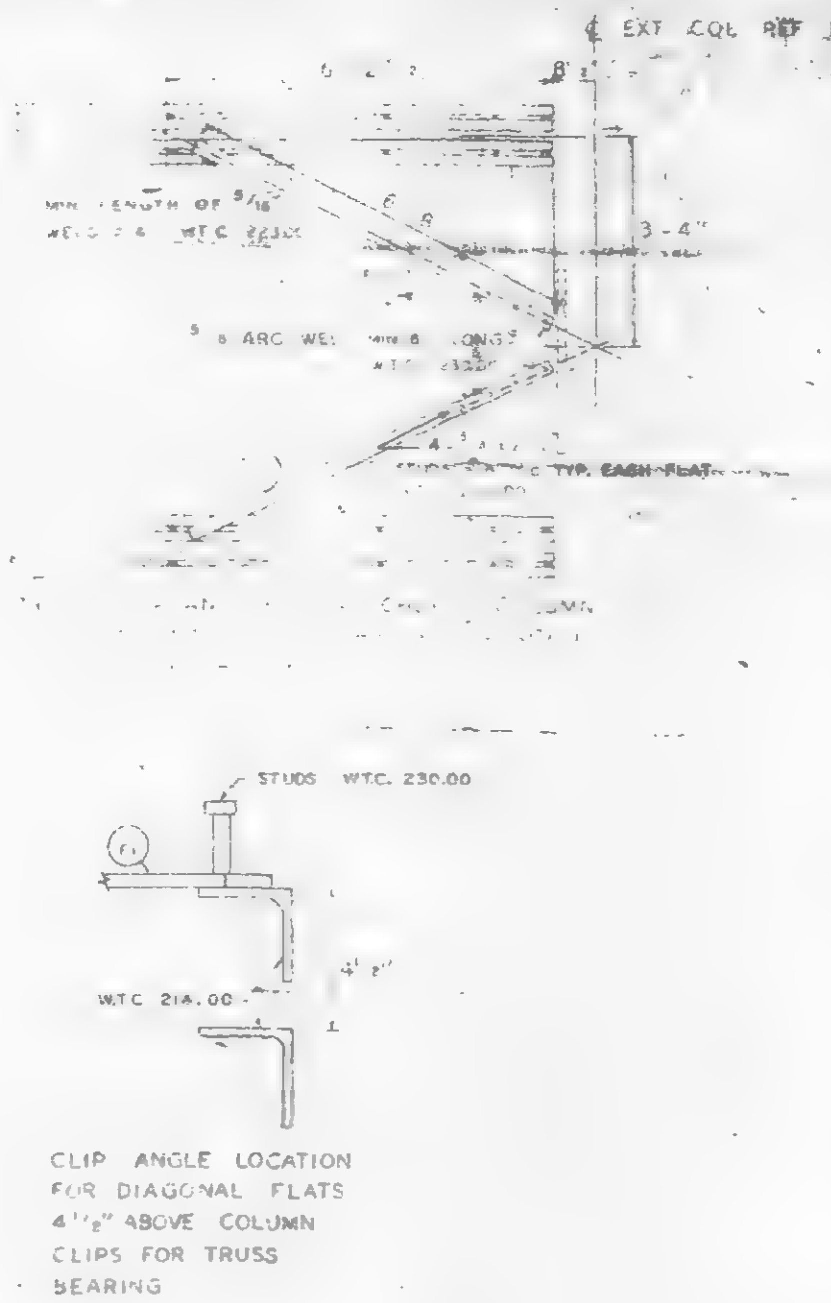
PANEL B2C-13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-26 PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA DATE 6/6/69
DRAWN BY [illegible] DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP B2C



REQUIRED MATERIAL PER				
MATERIAL	MK	PCS	[illegible]	[illegible]
FLOOR TRUSSES	T1K	4	C32T1	[illegible]
BRIDGING TRUSSES	T15	4	24T1	[illegible]
ANGLE	A2	4	3" x 2" x 1/4"	[illegible]
	A4	5	3" x 2"	[illegible]
DIAGONAL FLATS	F1	4	[illegible]	[illegible]
PATCH PLATES	PP1	12	[illegible]	[illegible]
	PP2	12	3" x [illegible] x 1'-3"	ST 400
[illegible] PLATES	A	2	9" x .035" x 43'-11 1/2"	ST 303
	B	4	9" x .035" x 15'-2"	ST 303
	C	2	9" x .035" x 13'-2 1/2"	ST 303
	D	2	6" x .03 x [illegible]	ST 303
ANGLE CLIPS	[illegible]	16	2" x 1 1/2" x 1/4" x 0'-[illegible]	ST 400
SHEAR ANCHOR	[illegible]	6	#6 REBAR	[illegible]
[illegible]	DUS 1		3 1/2" x 3 1/2" x 3/8" x 3'-6"	ST 29[illegible]
	DUS 2		3 1/2" x 3 1/2" x 3/8" x 3'-8"	ST [illegible]
[illegible] BAR	CB1	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400





REQUIRED MATERIAL FOR				
MATERIAL	MK	PCS		
FLOOR TRUSSES				
BRIDGING TRUSSES				
3 x 2 1/2 x 1/4 ANGLE	A2			
	A4	6		
DIAGONAL FLATS	F1			
PATCH PLATES	PP1	12		
	PP2	12		ST 400
PLATES	A			
	B	4	9" x .035" x 15'-2"	ST 303
	C	2	9" x .035" x 13'-2"	ST 303
	D	2	9" x .035" x	ST 303
ANGLE CLIPS	C	16	2" x 1 1/2" x 1/4"	ST 400
SHEAR ANCHOR	SA2		8 REBAR	ST 400
DAMPING SADDLE	DUS-1	1		
	DUS-2	1	3 1/2 x 3 1/2 x 3/8 x 3'-5	ST 290
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400

NUMBERS AND LETTERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET

NO.	DATE	REVISION
1	6-5-69	AS NOTED

REF DRWG

7-AB4-3	
7-AB4-15	1-22-68
7-AB4-42	10-15-68
SA-24	1-6-69
7-AB3-2	3-68
7-AB1-2	3-22-68
7-AB2-8	3-22-68

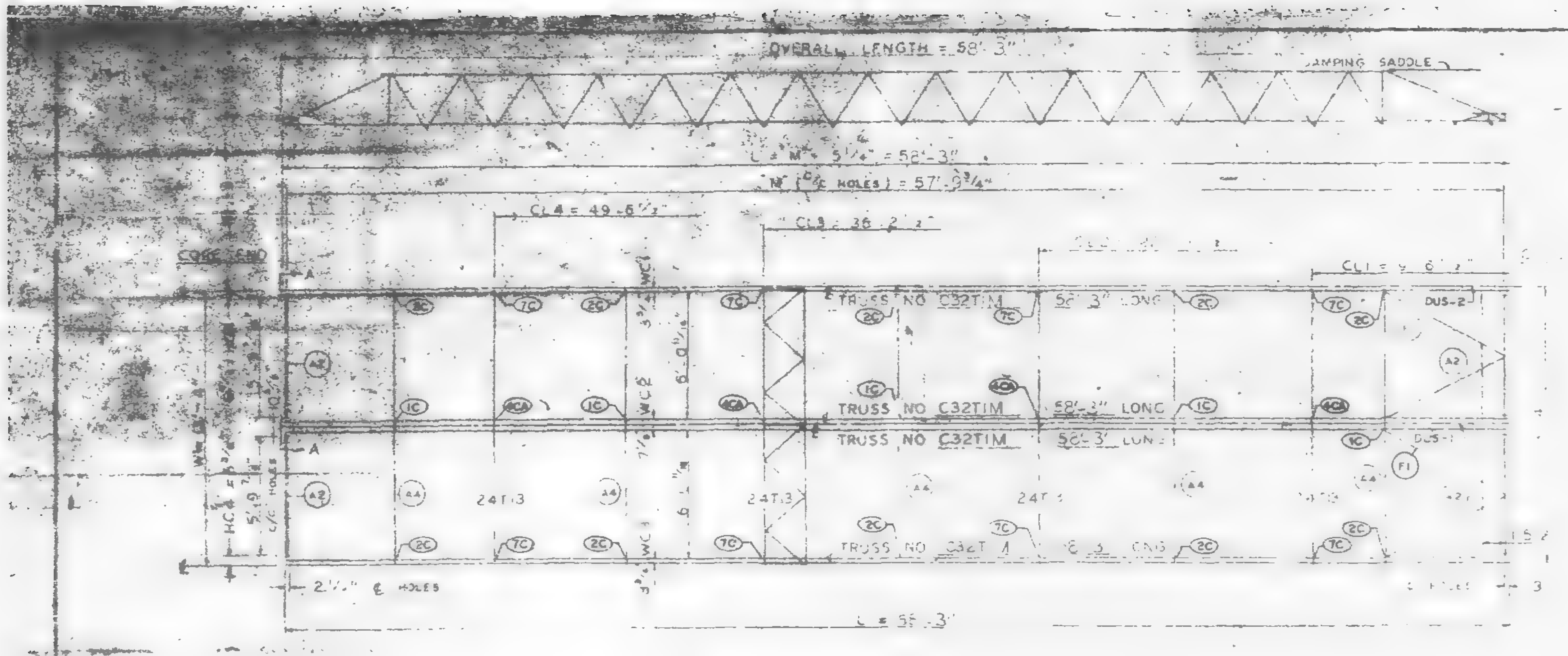
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
PORT OF NEW YORK AUTHORITY

PANEL BR1H 3'-4" x 58'-8"

BLDG. 8 FLOORS 79-80 (WEST)

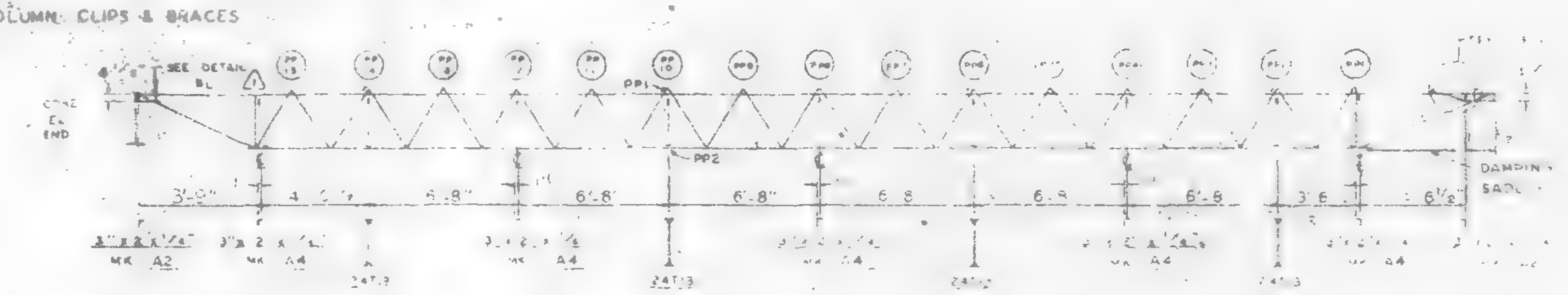
LACLEDE STEEL COMPANY

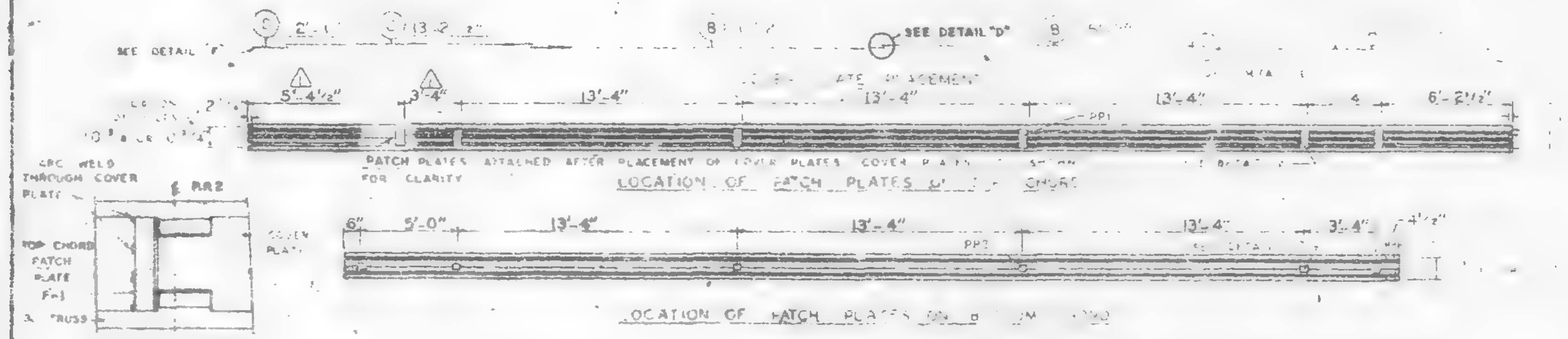
DESIGN DRAWING NO. 7-AB3-6
APPROVED FOR FABRICATION
DATE
DRAWN BY
DATE 0-23-68
FABRICATION
DATE
CHECKED BY
DATE
[redacted]
IN CHARGE OF

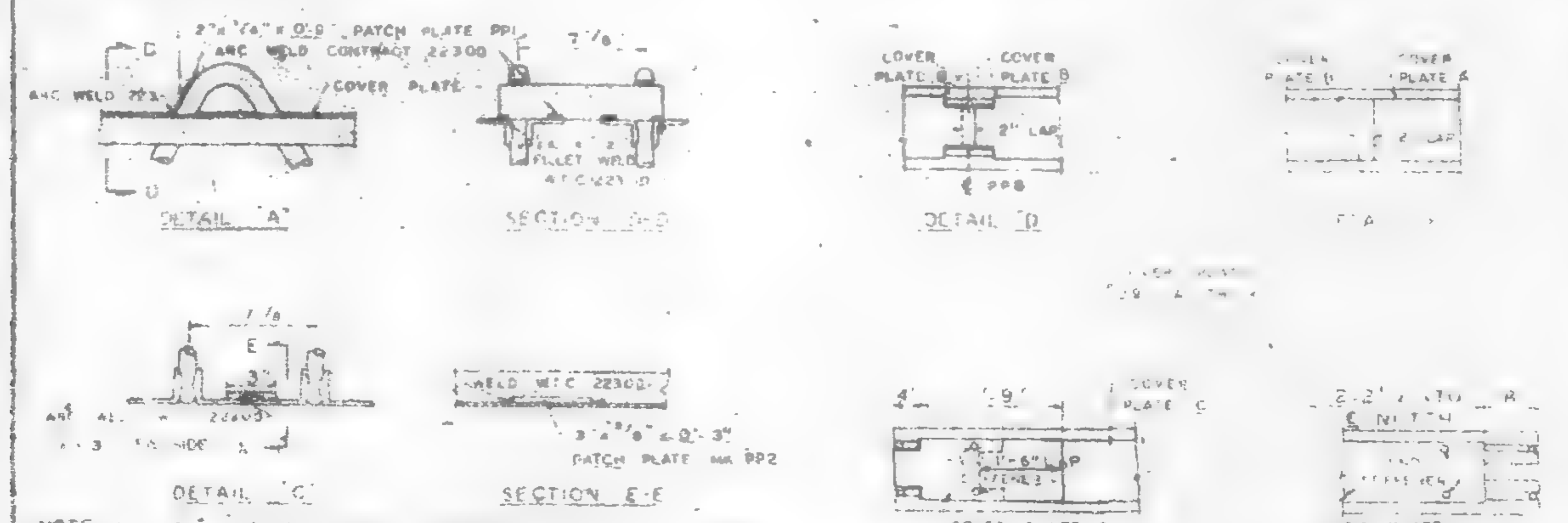


PANEL NO. BRIM SIZE 13'-4" x 58'-3"

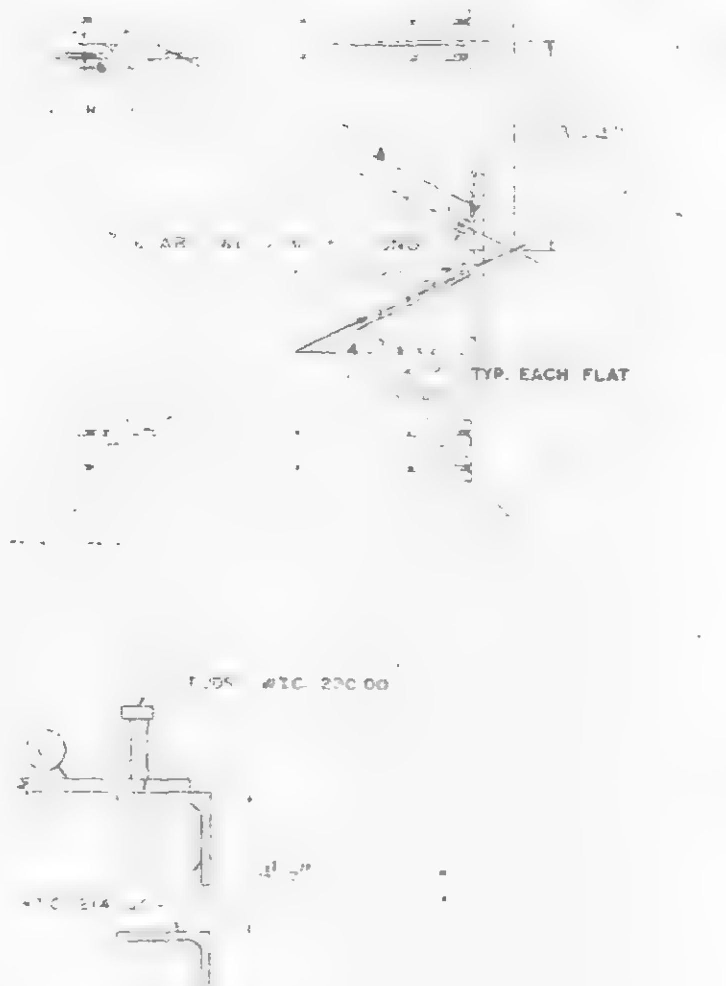
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES







NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE ¼"x1" FULL THROAT FILLET.



CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4'-1" ABOVE COLUMN CLIPS FOR TRUSS BEARING

NUMBERS AND LETTERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET [illegible]

REQUIRED MATERIAL PER [illegible]				
MATERIAL	MK	PCS	[illegible]	
FLOOR TRUSSES	T1M	4	C32T1 [illegible]	[illegible]
BRIDGING TRUSSES	T13	4	24T13 [illegible]	ST [illegible]
3"x2"x¼" ANGLE	A2	4	3"x2"x¼"x [illegible]	ST 403
	A4	5	3"x2"x¼"x [illegible]	ST 403
DIAGONAL FLATS	F1	4	[illegible] x 3'-8"	[illegible]
PATCH PLATES	PP1	12	8"x [illegible]	ST 400
	PP2	12	8"x ⅜"x 0'-3"	ST 400
[illegible] PLATES	A	2	9"x .0135"x [illegible]	ST 400
	B	4	9"x .0135"x 15'-2"	ST 303
	C	2	9"x .0135"x 13'-2½"	ST 303
	D	2	9 x .0135 x 2'-1"	ST 303
ANGLE CLIPS	[illegible]	16	2"x 1½"x ¼"x 0'-6"	ST 400
#8 [illegible] ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
[illegible] SADDLE	DUS-1		3½"x3½"x ⅜"x 2'-8⅜"	[illegible]
	DUS-2		3½"x3½"x ⅜"x 3'-6⅞"	ST 298
[illegible] IN BAR	CB1	4	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3½"x 3⅛"x 6⅛"	ST 400
	P2	8	4½"x .30"x 0'-9"	ST 400
	P3	4	4½"x .30"x 1'-0"	ST 400

NO.	DATE	REVISION
1	6-3-69	AS NOTED

REF DRWG

7-AB4-3	10-8-69
7-AB4-16	7-28-69
7-AB4-12	10-6-68
SA-24	1-6-69
7-AB3-2	1-8-68
7-AB1-2	7-22-68
7-AB2-9	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

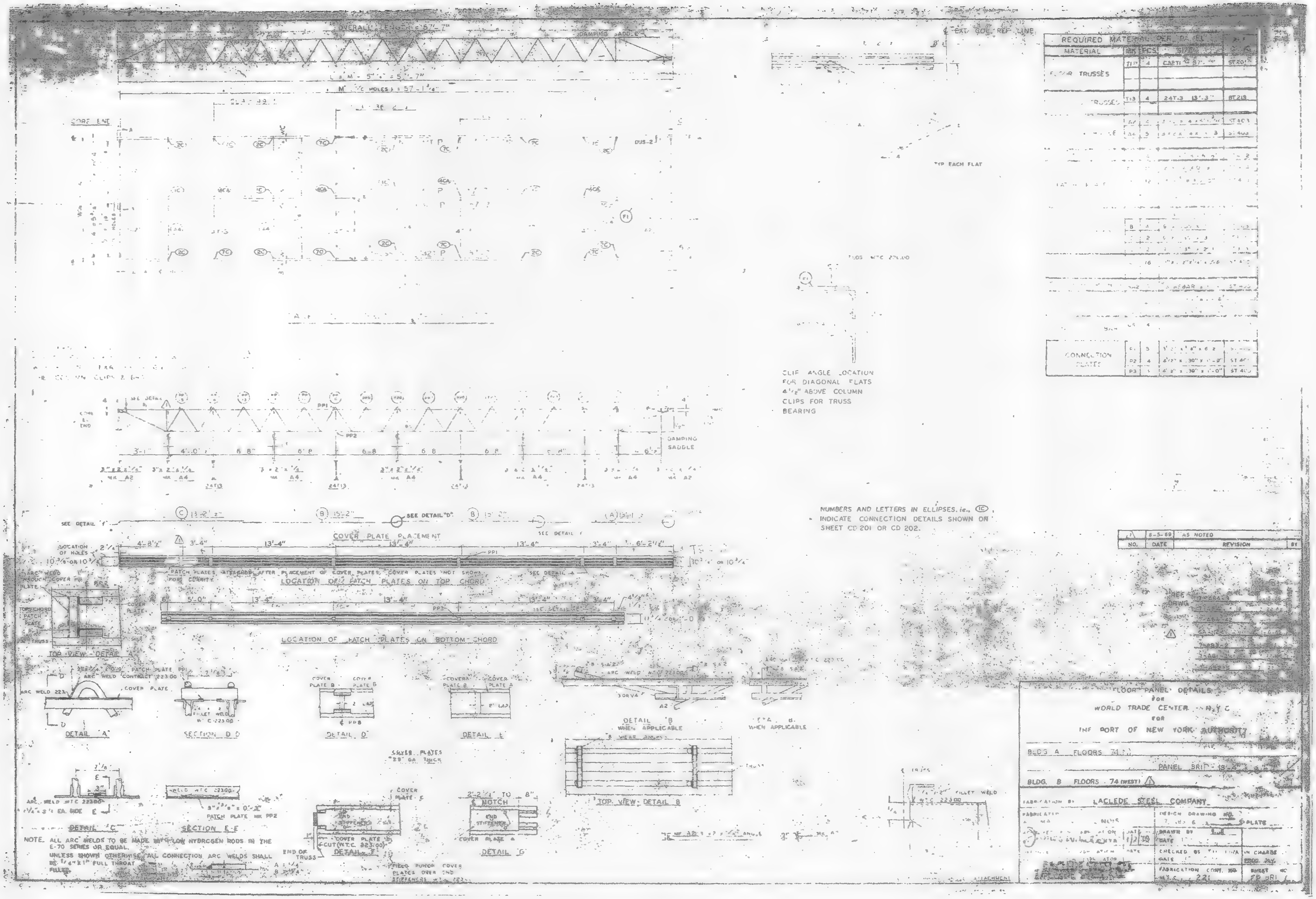
BLDG. A FLOORS 7[illegible]-72 N.

PANEL BRIM 13'-4" x 58'-3"

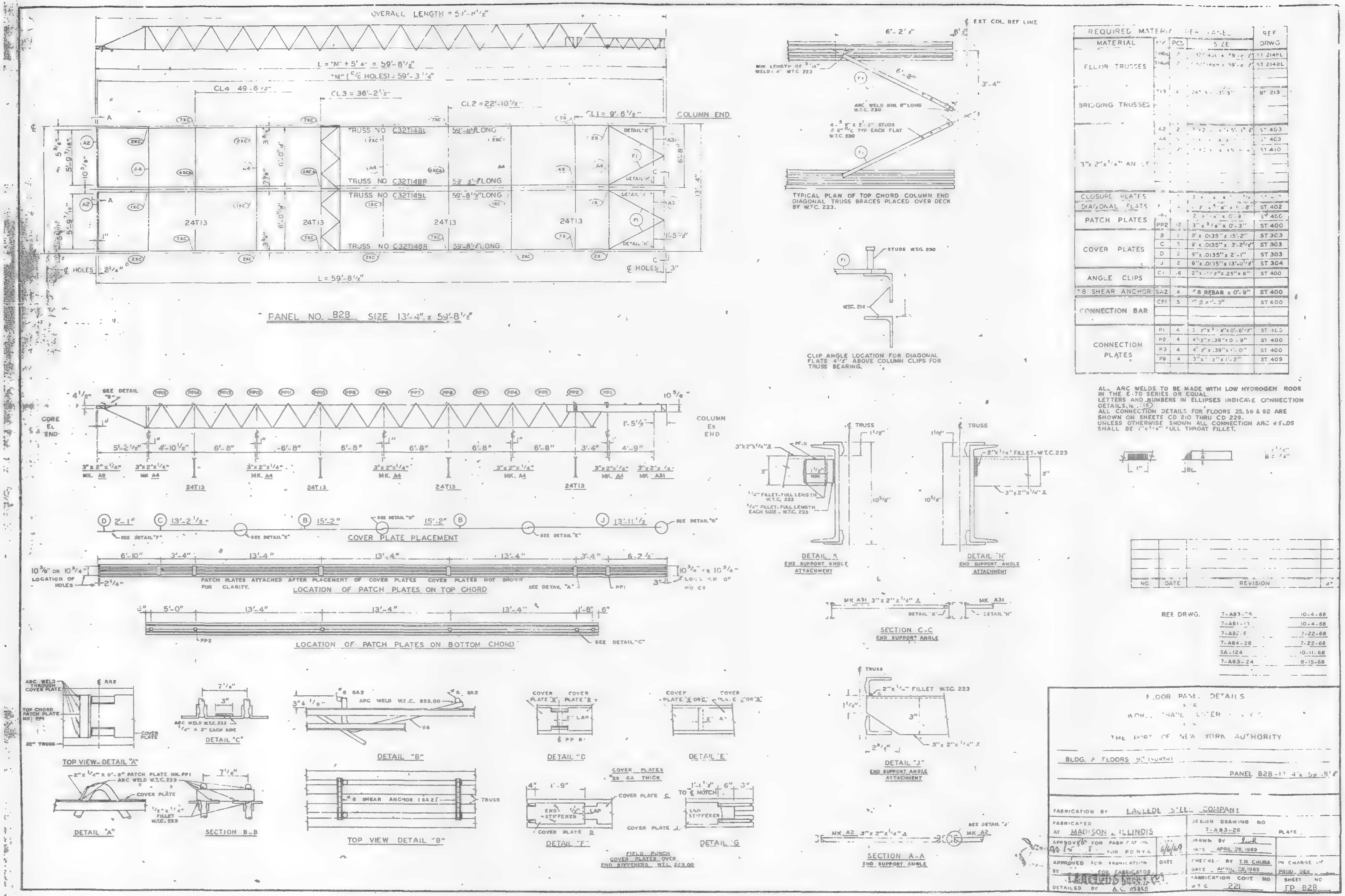
BLDG. B FLOORS 72-73 (WEST)

LACLEDE STEEL COMPANY
MADISON, ILLINOIS

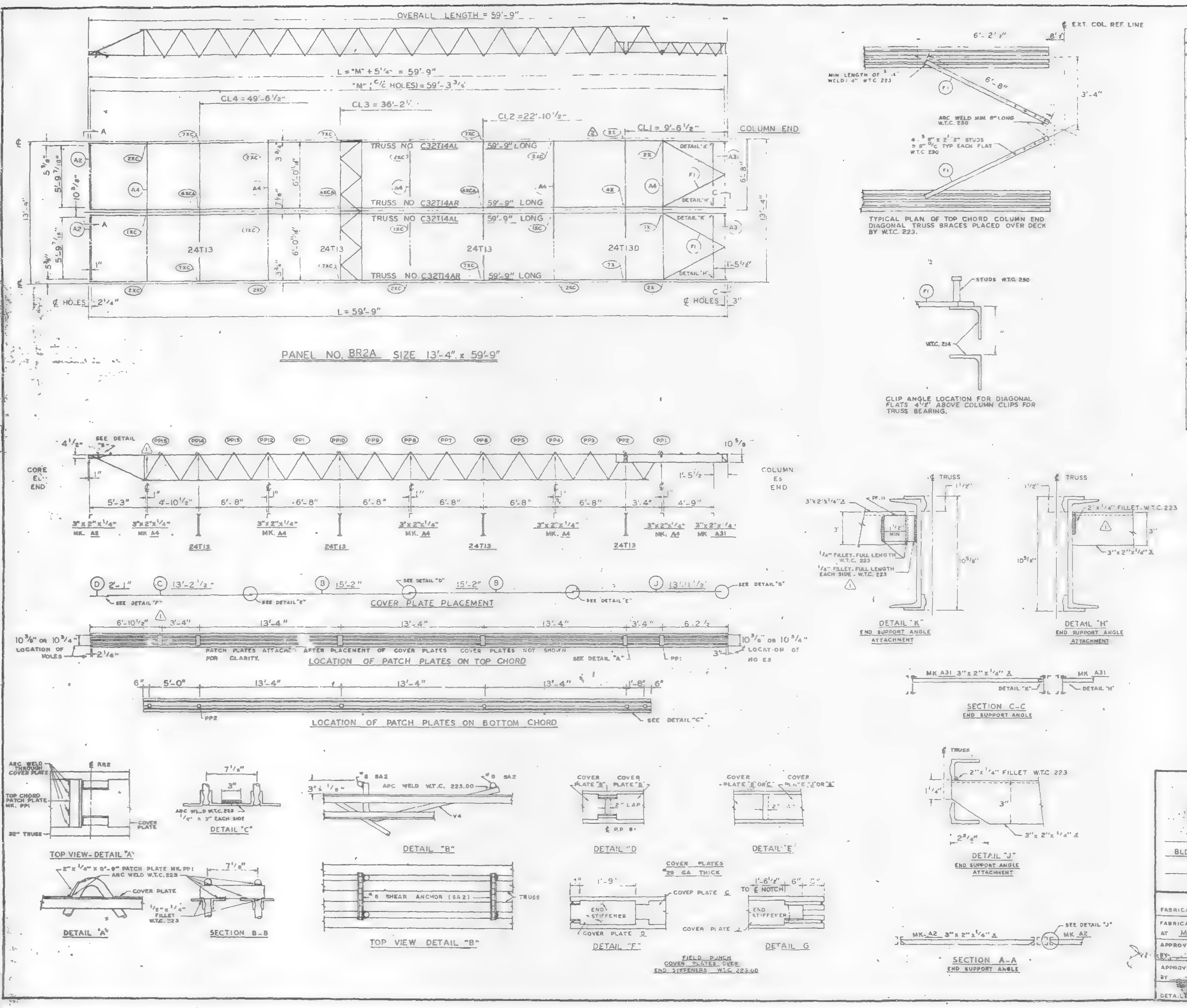
APPROVED FOR FABRICATION [illegible]	DATE [illegible]	DESIGN DRAWING NO. 7-AB3-[illegible]	DATE
APPROVED FOR FABRICATION	DATE	DRAWN BY / DATE	
[illegible] BY [illegible]		CHECKED BY / DATE	[illegible]
		FABRICATION SHEET NO. [illegible]	[illegible]



OVERALL LENGTH = 57'-7"
DAMPING SADDLE
EXT. COL. REF. LINE
REQUIRED MATERIAL PER PANEL
MATERIAL
PCS
FLOOR TRUSSES
TRUSSES
CONNECTION PLATES
TYP EACH FLAT
CORE END
CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4 1/2" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING
DAMPING SADDLE
NUMBERS AND LETTERS IN ELLIPSES, i.e., (1C)
INDICATE CONNECTION DETAILS SHOWN ON
SHEET CD 201 OR CD 202.
SEE DETAIL "D"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
TOP VIEW DETAIL B
COVER PLATES
NOTCH
END STIFFENER
NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE
E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL
BE 1/4"x1" FULL THROAT
FILLET.
NO.
DATE
REVISION
BY
AS NOTED
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 74
PANEL BRI
BLDG. B FLOORS 74 (WEST)
FABRICATION BY LACLEDE STEEL COMPANY
DESIGN DRAWING NO.
DRAWN BY
DATE
CHECKED BY
IN CHARGE
FABRICATION CONT. NO.
SHEET NO.
221



OVERALL LENGTH = 59'-11 1/2"
PANEL NO. B2B SIZE 13'-4" x 59'-8 1/2"
COLUMN END
TRUSS NO C32T14BL 59'-8 1/2" LONG
TRUSS NO C32T14BR 59'-8 1/2" LONG
TRUSS NO C32T14BL 59'-8 1/2" LONG
TRUSS NO C32T14BR 59'-8 1/2" LONG
L = 59'-8 1/2"
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
REQUIRED MATERIAL PER PANEL
FLOOR TRUSSES
BRIDGING TRUSSES
CLOSURE PLATES
DIAGONAL FLATS
PATCH PLATES
COVER PLATES
ANGLE CLIPS
#8 SHEAR ANCHOR
CONNECTION BAR
CONNECTION PLATES
ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON BOTTOM CHORD
DETAIL "K" END SUPPORT ANGLE ATTACHMENT
DETAIL "H" END SUPPORT ANGLE ATTACHMENT
SECTION C-C END SUPPORT ANGLE
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
SECTION A-A END SUPPORT ANGLE
TOP VIEW - DETAIL "A"
DETAIL "C"
DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "A"
SECTION B-B
TOP VIEW DETAIL "B"
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
REF. DRWG. 7-AB1-13 10-4-68
7-AB4-28 7-22-68
SA-124 10-11-68
7-AB3-24 8-15-68
NO DATE REVISION BY
FLOOR PANEL DETAILS
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-26
APPROVED FOR FABRICATION 6/6/69
DATE APRIL 28, 1969
CHECKED BY T.N. CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP B2B



REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK	PCS	SIZE	DRWG.
FLOOR TRUSSES	T14AL	2	C32T14AL x 59'-9"	ST 214AL
	T14AR	2	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T13		24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3"x 2"x 1/4" ANGLE	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A4	5	3"x 2"x 1/4"x 13'-3"	ST 403
	A31	2	3"x 2"x 1/4"x 5'-8 1/16"	ST 410
CLOSURE PLATES	[illegible]	2	3"x 1/4" x 0'-2 3/8"	ST 402
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	2	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2"x 3/8"x 0'-8 1/2"	ST 400
	P2	3	4 1/2"x .39"x 0'-9"	ST 400
	P3	3	4 1/2"x .39"x 1'-0"	ST 400
	P9	4	3"x 1/2"x 1'-2"	ST 409
	P10	1	4 1/2"x .39"x 0'-5"	ST 409
	P11	1	3"x 1/4"x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 56 & 92 ARE SHOWN ON SHEETS CD 213 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"-1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY
2	5-12-69	AS NOTED	GDC
1	2-4-69	AS NOTED	GDC

REF. DRWG.

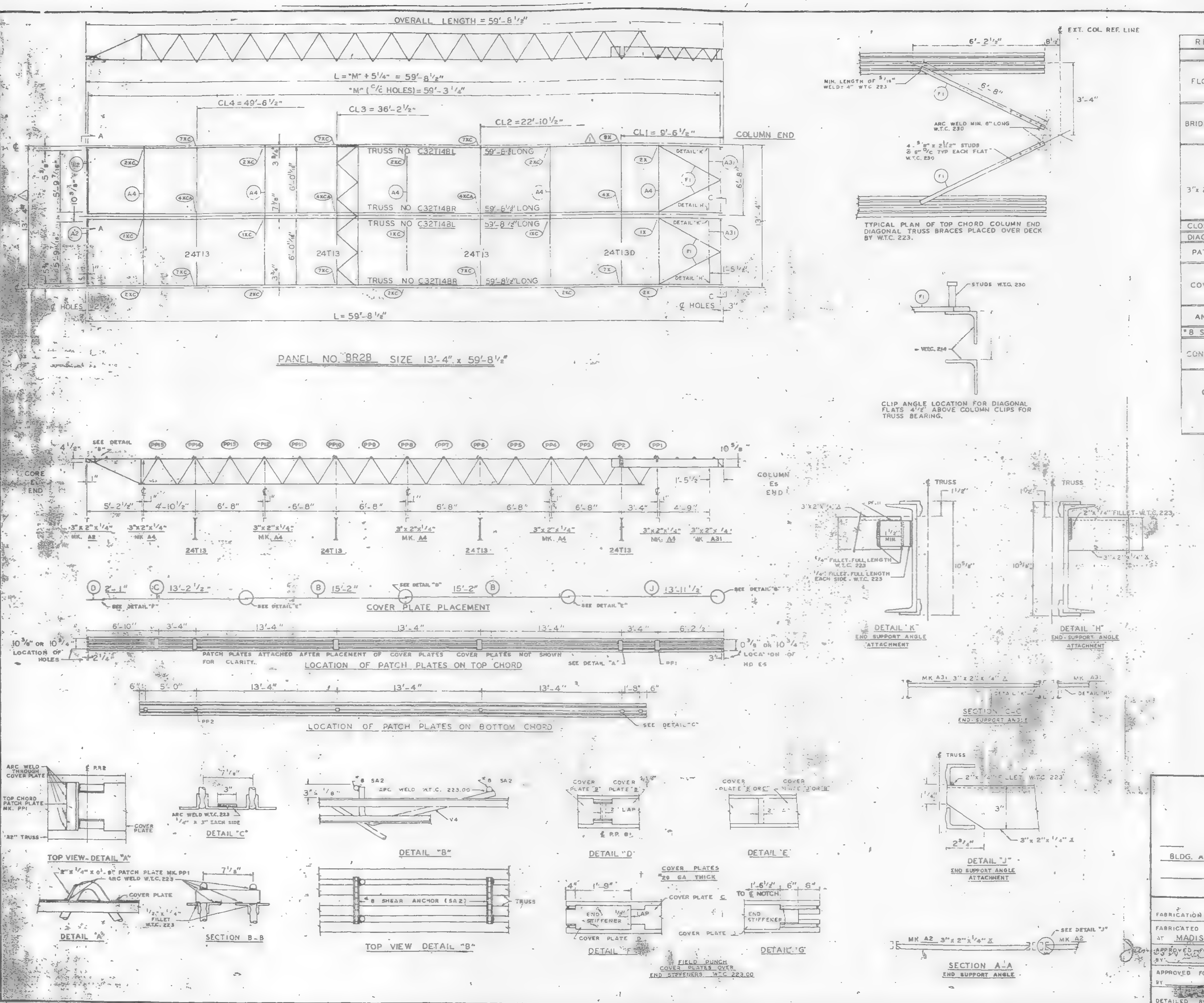
7-AB3-27	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-28	7-22-68
SA-124	10-11-68
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)

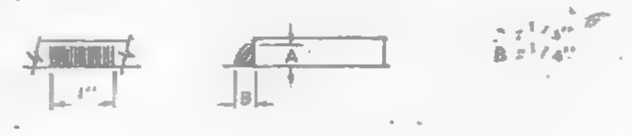
PANEL BR2A-13'-4" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-27 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 6/6/69
DRAWN BY [illegible] DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE DEC. 5, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP BR2A



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14BL	2	C32T14BL x 59'-8 1/2"	ST 214BL
	T14BR	2	C32T14BR x 59'-8 1/2"	ST 214BL
BRIDGING TRUSSES	T13	1	24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3" x 2" x 1/4" ANGLE	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
	A31	2	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	2	3" x 1/4" x 0' 2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	18	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠1	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400
	P9	4	3" x 1/2" x 1'-2"	ST 409
	P10	1	4 1/2" x .39" x 0'-5"	ST 409
	P11	1	3" x 1/4" x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.



NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	G.D.C.

REF DRWG.

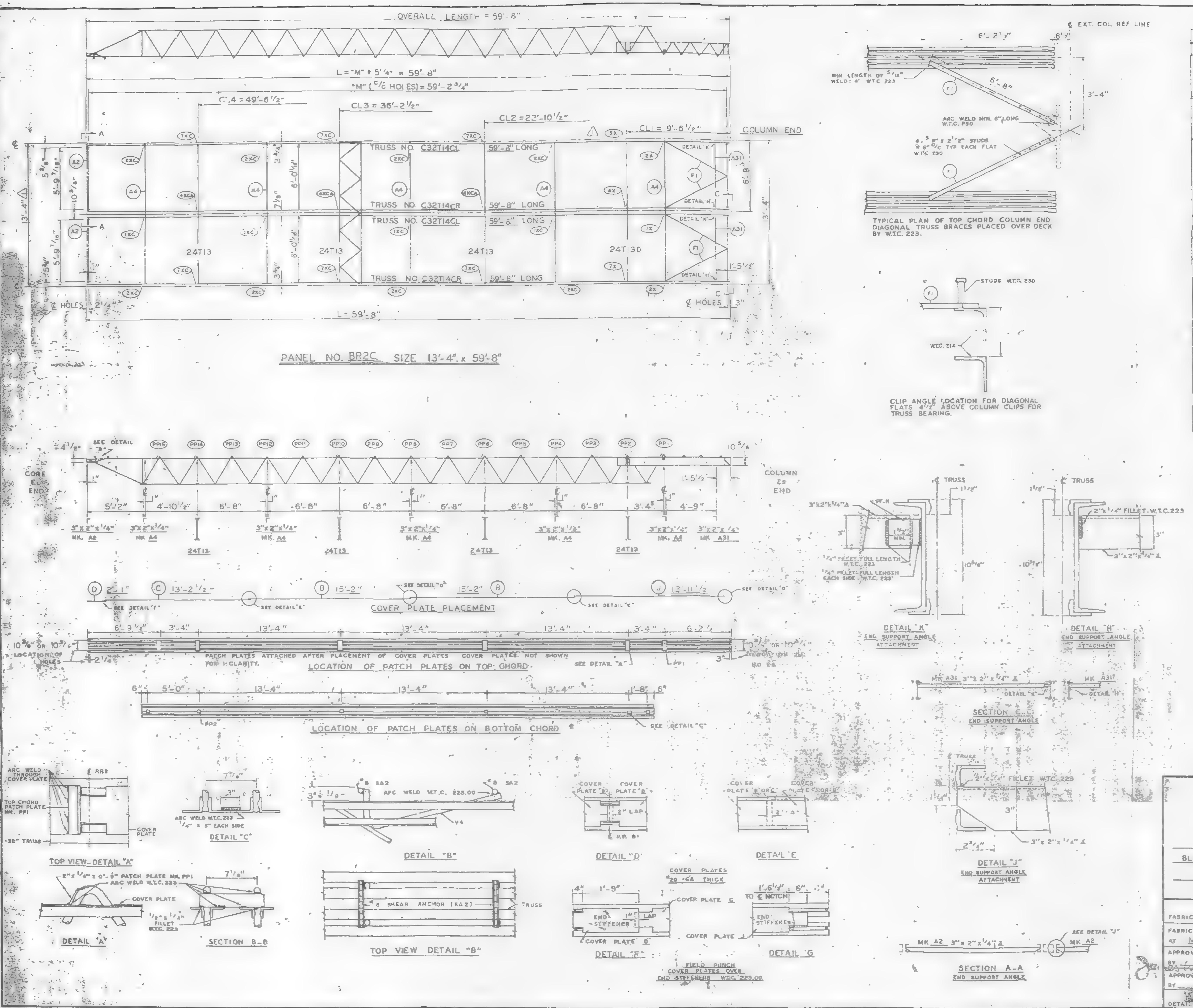
7-AB3-27	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-66
7-AB4-28	7-22-68
SA-124	10-11-68
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 92 (NORTH)

PANEL BR2B-13'-4" x 59'-8 1/2"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-27 PLATE
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE 6/6/69
DRAWN BY ______ DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP BR2B



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T13	1	24T13 x 13'-3"	ST 213
	T13D	1	24T13D x 13'-3"	ST 213D
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
	A31	2	3"x2"x1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	2	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER, PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2"x 1 1/2"x .25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠1	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	3	4 1/2"x .39"x 0'-9"	ST 400
	P3	3	4 1/2"x .39"x 1'-0"	ST 400
	P9	4	3"x 1/2"x 1'-2"	ST 409
	P10	1	4 1/2"x .39"x 0'-5"	ST 409
	P11	1	3" x 1/4"x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY
1	5-2-69	AS NOTED	GDC

REF. DRWG.

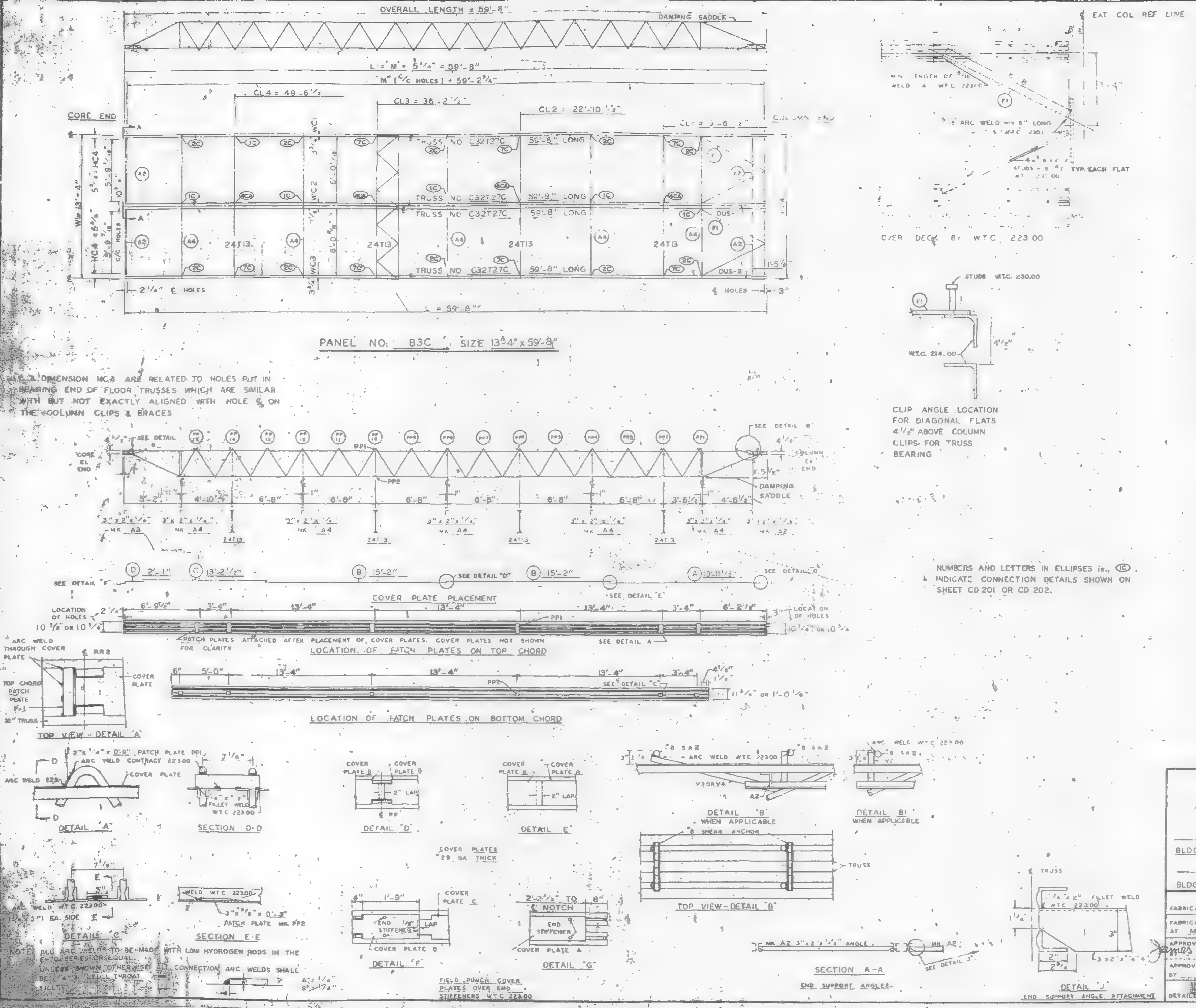
7-AB3-27	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-28	7-22-68
SA-124	10-11-68
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)

PANEL BR2C-13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY ____ FOR PONYA DATE 6/6/69
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE ____
DETAILED BY A.C. WEBER
DESIGN DRAWING NO. 7-AB3-27 PLATE ____
DRAWN BY [signature] DATE APRIL 28, 1969
CHECKED BY T.M. CHURA DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
FABRICATION CONT NO W.T.C. 221
SHEET NO FP BR2C



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T27C	4	C32T27C-59'-8"	ST227C
BRIDGING TRUSSES	T3	4	24T13 13'-3"	BT213
3"x2"x1/4 ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16	ST403
	A4	5	3"x2"x1/4 x 13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2 x 5/8 x 6'-8	ST402
PATCH PLATES	PP1	12	2 x 1/4 x 0'-9"	ST400
	PP2	12	3 x 3/8" x 0'-3"	ST400
COVER PLATES	A	2	9"x.0135"x13'-11 1/2	ST303
	B	4	9"x.0135"x15'-2"	ST303
	C	2	9"x.0135"x13'-2 1/2	ST303
	D	2	9"x.0135"x2'-1"	ST303
ANGLE CLIPS	C1	16	2"x1 1/2"x1/4"x0'-8"	ST400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-3 5/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8 x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1"Ø x 1'-3"	ST400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/8"	ST400
	P2	4	4 1/2" x .38" x 0'-9"	ST400
	P3	4	4 1/2" x .38" x 1'-0"	ST400

NO.	DATE	REVISION	BY

REF DRWG

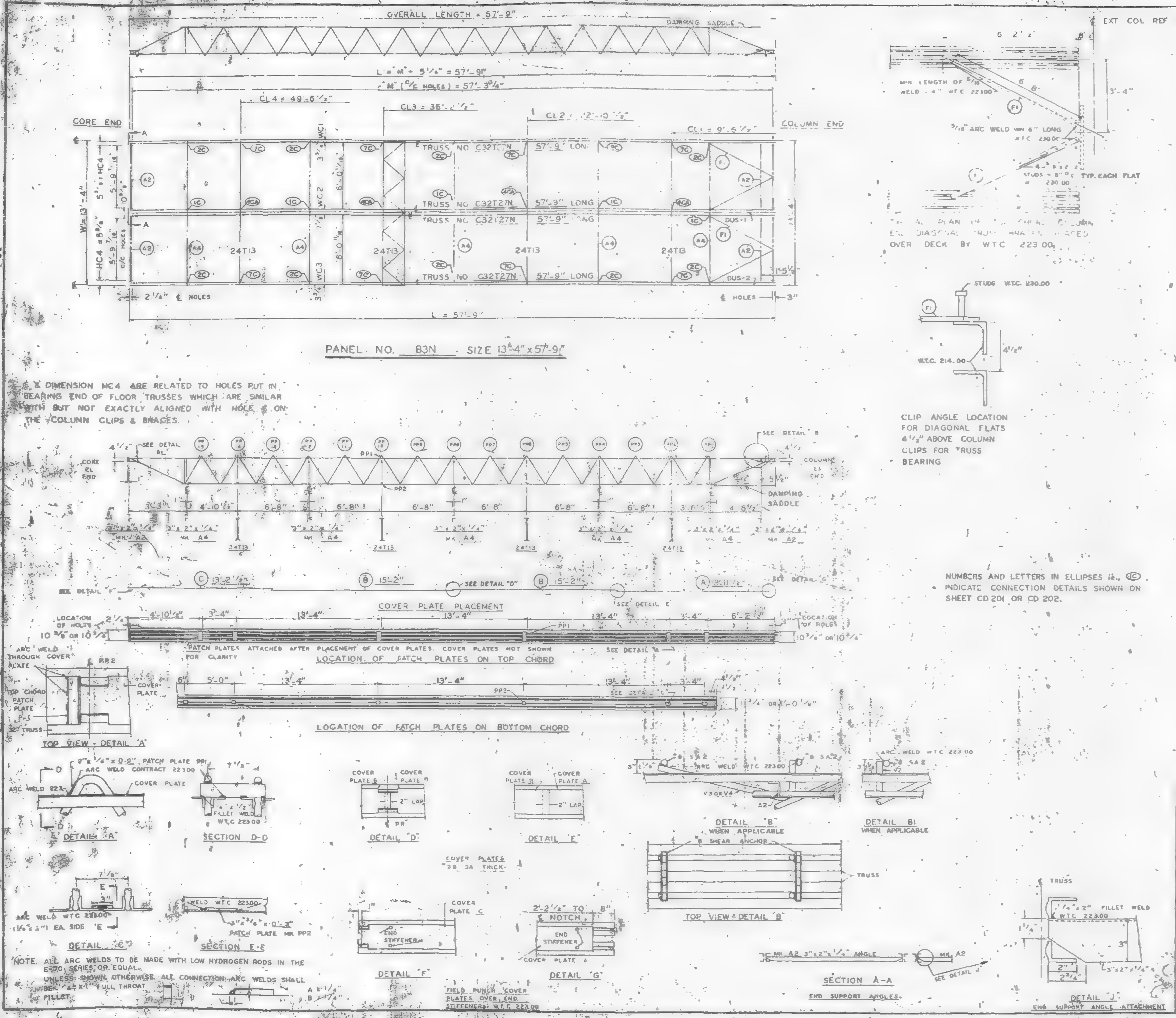
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-42	10-15-68
SA-124	1-6-69
7-AB3-43	1-6-69
7-AB1-24	1-6-69
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 78 (SOUTH)
PANEL B3C - 13'-4" x 59'-8"
BLDG. B FLOORS 78 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-43	PLATE
APPROVED FOR FABRICATION BY James [signature] FOR PONYA	DATE 7/31/69	DRAWN BY [signature] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DIV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO FP B3C



REQUIRED MATERIAL PER PANEL				
MATERIAL	MK.	PCS	SIZE	REF. DRWG
FLOOR TRUSSES	T2?N	4	C32T?N-57'-9"	ST2??
BRIDGING TRUSSES	T13	4	24T13 - 13'-3"	BT213
3"x2"x1/4 ANGLE	A2	4	3"x2"x1/4"x5'-11 9/16"	ST403
	A4	5	3"x2"x1/4"x13'-3"	ST403
DIAGONAL FLATS	F1	4	1 1/2"x5/8"x6'-8"	ST402
PATCH PLATES	PP1	12	2"x1/4"x0'-9"	ST400
	PP2	12	3"x3/8"x0'-3"	ST400
COVER PLATES	A	2	[illegible]	[illegible]
	B	4	9"x .0135"x15'-2"	ST303
	C	2	9"x .0135"x13'-2 1/2"	ST303
ANGLE CLIPS	C1	12	2"x1 1/2"x1/4"x0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-3 7/8"	ST296
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2"x3/8"x6 1/2"	ST 400
	P2	4	4 1/2"x.30"x0'-6"	ST 400
	P3	4	4 1/2"x.30"x1'-0"	ST 400

NO.	DATE	REVISION	BY

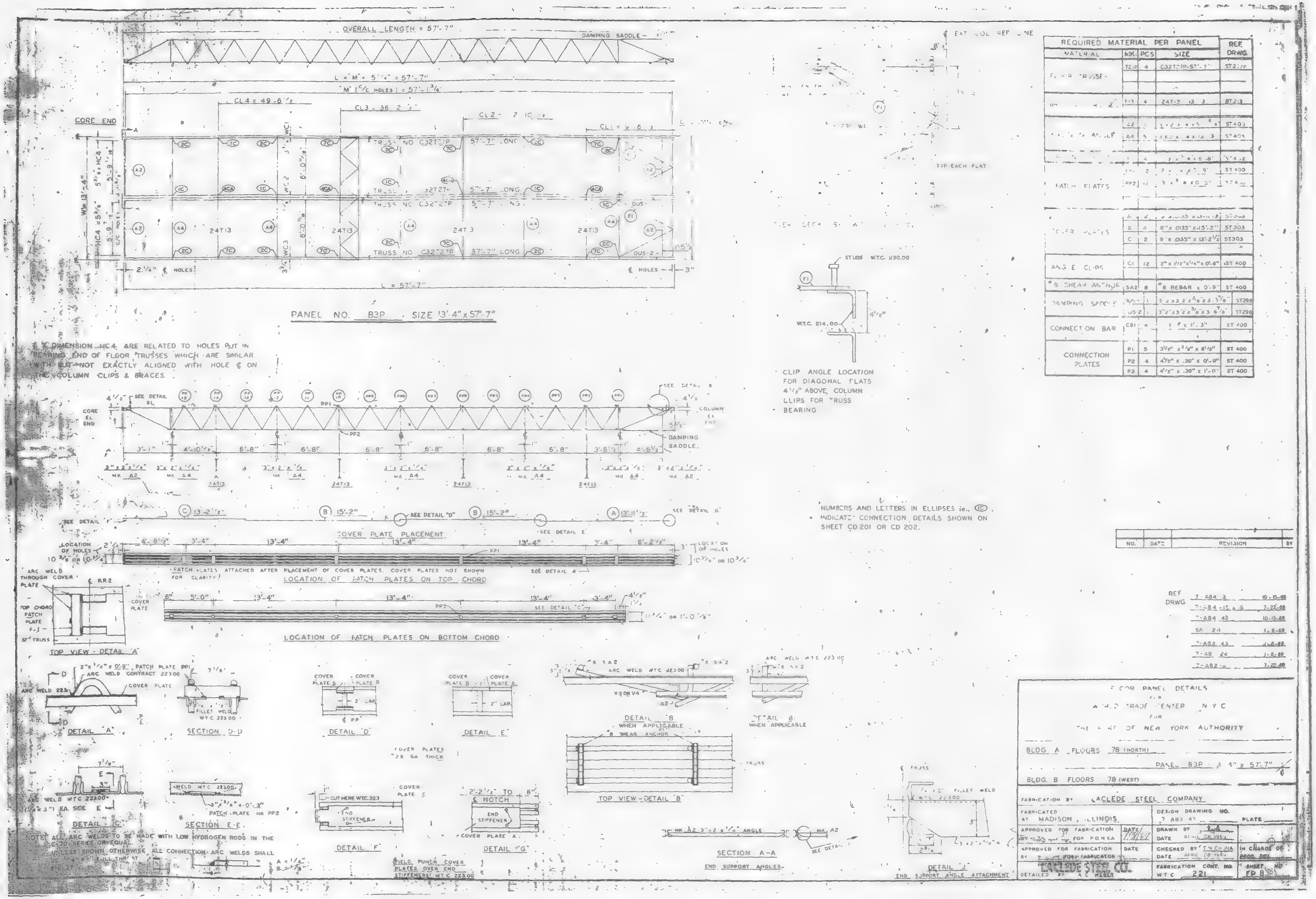
REF DRWG
7-AB4-3 10-15-68
7-AB4 15 & 16 7-22-68
7-AB4 42 10-15-68
SA-124 1-6-69
7-AB3-43 1-6-69
7-AB1-24 1-6-69
7-AB2-8 7-22-68

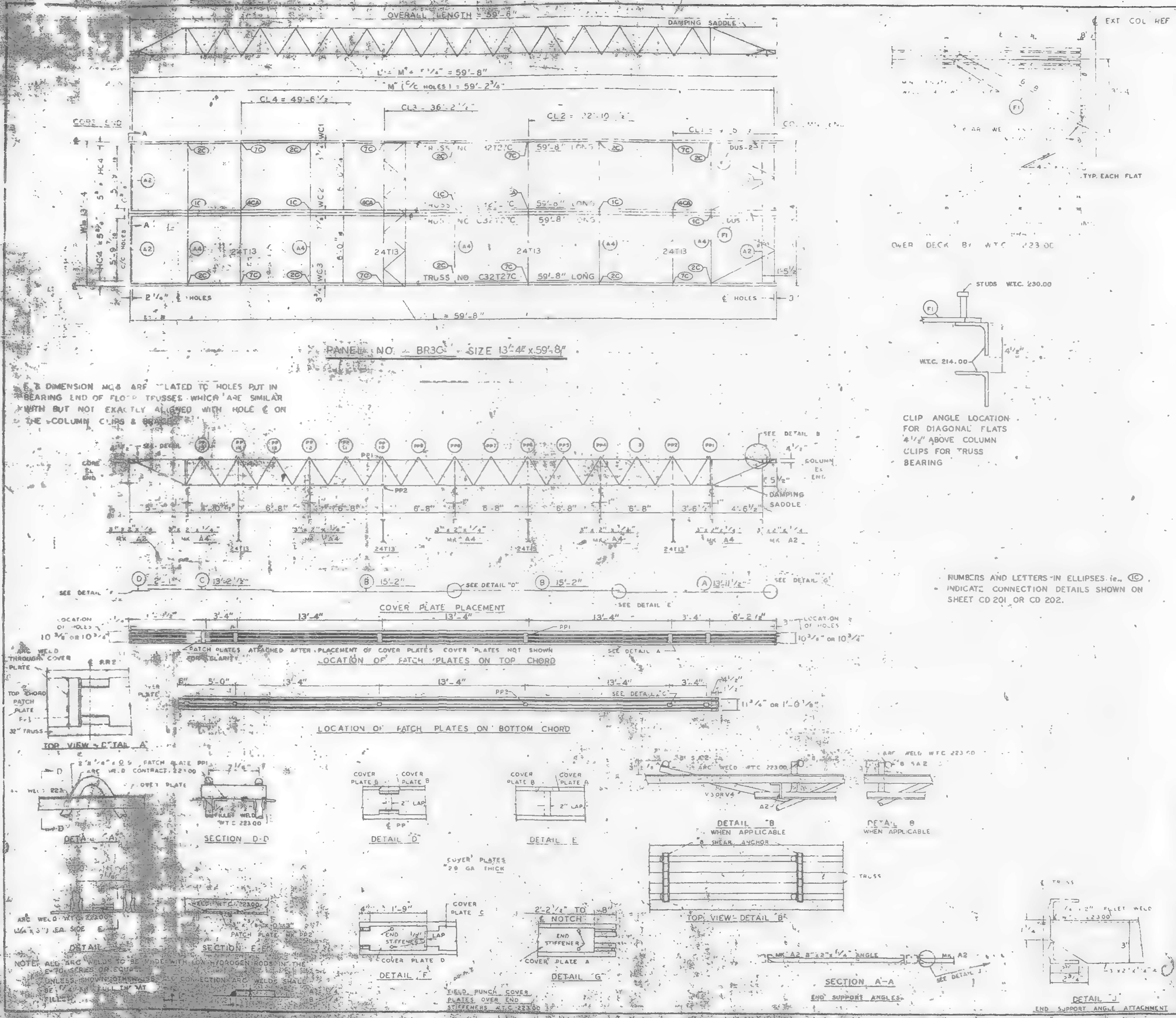
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 44 (EAST)

PANEL B3N - 13'-4" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-43
PLATE
APPROVED FOR FABRICATION BY [signature] FOR P.O.N.Y.A. DATE 7/31/69
DRAWN BY [signature] DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY [signature] FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE APRIL 28, 1969
IN CHARGE OF PROG. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO W.T.C 221
SHEET NO FP B3N


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
CORE END
PANEL NO. B3P SIZE 13'-4" x 57'-7"
L = 57'-7"
TRUSS NO C32T2P 57'-7" LONG
24T13
REQUIRED MATERIAL PER PANEL
MATERIAL
MK.
PCS
SIZE
REF. DRWG.
PATCH PLATES
COVER PLATES
ANGLE CLIPS
DAMPING SADDLE
CONNECTION BAR
CONNECTION PLATES
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
NUMBERS AND LETTERS IN ELLIPSES ie. INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
TOP VIEW - DETAIL 'A'
DETAIL 'A'
SECTION D-D
DETAIL 'D'
DETAIL 'E'
DETAIL 'B'
TOP VIEW - DETAIL 'B'
DETAIL 'C'
SECTION E-E
DETAIL 'F'
DETAIL 'G'
SECTION A-A
END SUPPORT ANGLES
DETAIL 'J'
END SUPPORT ANGLE ATTACHMENT
NO.
DATE
REVISION
BY
REF DRWG
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 78 (NORTH)
BLDG. B FLOORS 78 (WEST)
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
W.T.C. 221



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T2 [illegible]	4	C32T [illegible] -59'-8"	ST2[illegible]
[illegible]	T[illegible]	4	[illegible]	ST 212
[illegible] ANGLE	[illegible]	[illegible]	[illegible]	ST4[illegible]
[illegible]	[illegible]	4	[illegible]	[illegible]
PATCH PLATES	PP[illegible]	[illegible]	[illegible]	[illegible]
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	16	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-3 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0	ST 400

NO.	DATE	REVISION	BY

REF DRWG

7-AB4-[illegible]	10-15-68
7-AB4-[illegible]	7-22-68
7-AB4-42	10-15-68
SA [illegible]	1-6-69
7-AB3-44	1-6-69
7-AB[illegible]-24	1-6-69
7-AB2-8	7-22-68

FLOOR PANEL DETAILS

PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 78 (SOUTH)

PANEL BR3C 13'-4" x 59'-8"

BLDG B FLOORS 78 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. AB3-44 PLATE

APPROVED FOR FABRICATION BY [signature] FOR PONYA — DATE 7/31/69

DRAWN BY [signature] DATE APRIL 28, 1969

APPROVED FOR FABRICATION BY ______ FOR FABRICATORS — DATE

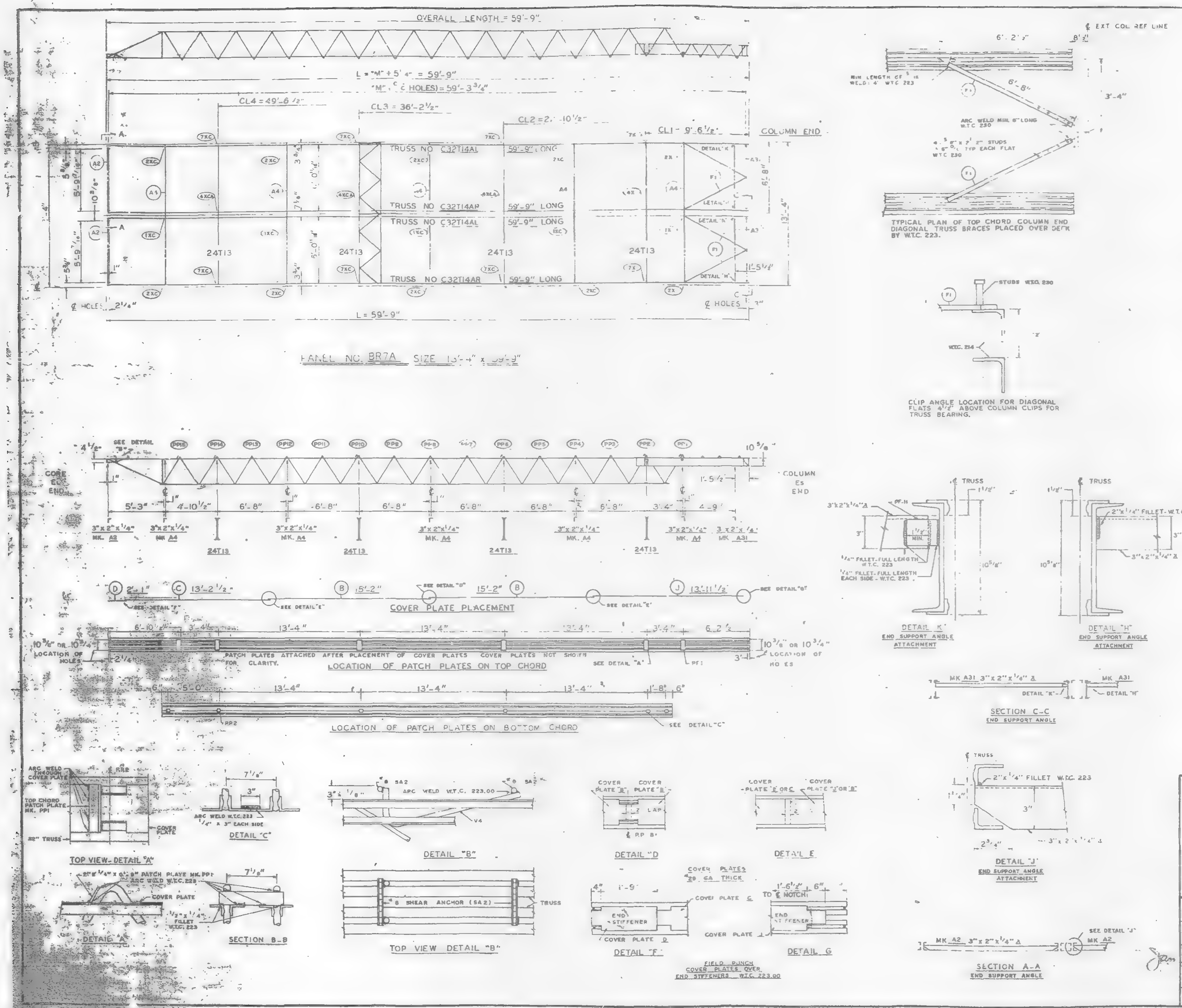
CHECKED BY T.M. CHURA DATE APRIL 28, 1969

IN CHARGE OF [illegible]

LACLEDE STEEL CO. DETAILED BY A.C. WEBER

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FD BR3C



REQUIRED MATERIAL PER PANEL MATERIAL	MK	PCS	SIZE	REF. DRWG
FLOOR TRUSSES	[illegible]4AL	2	[illegible] x 59'-9"	[illegible] 214AL
	T14AR	2	C32T14AR x 59'-9"	[illegible]
BRIDGING TRUSSES	[illegible]	4	[illegible] x 13'-3"	ST 213
3" x 2" x 1/4" ANGLES	[illegible]	2	[illegible] x 5'-11 3/8"	ST 403
	[illegible]	[illegible]	[illegible]	[illegible] 403
	[illegible]	[illegible]	[illegible]	[illegible]
CLOSURE [illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DIAGONAL FLAT	[illegible]	4	[illegible]	ST 402
PATCH PLATE	[illegible]	[illegible]	[illegible]	ST 400
	PP2	12	3 x 3/8 x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	[illegible]	6	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	[illegible]	5	[illegible]	ST 400
CONNECTION PLATES	P1	4	[illegible] x 0'-6 1/2"	ST 400
	P2	4	[illegible] x 39 x 0'-9"	ST 400
	P3	4	[illegible] x 39 x 1'-0"	ST 400
	P9	4	[illegible] x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 2[illegible]9.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

REF. DRWG.

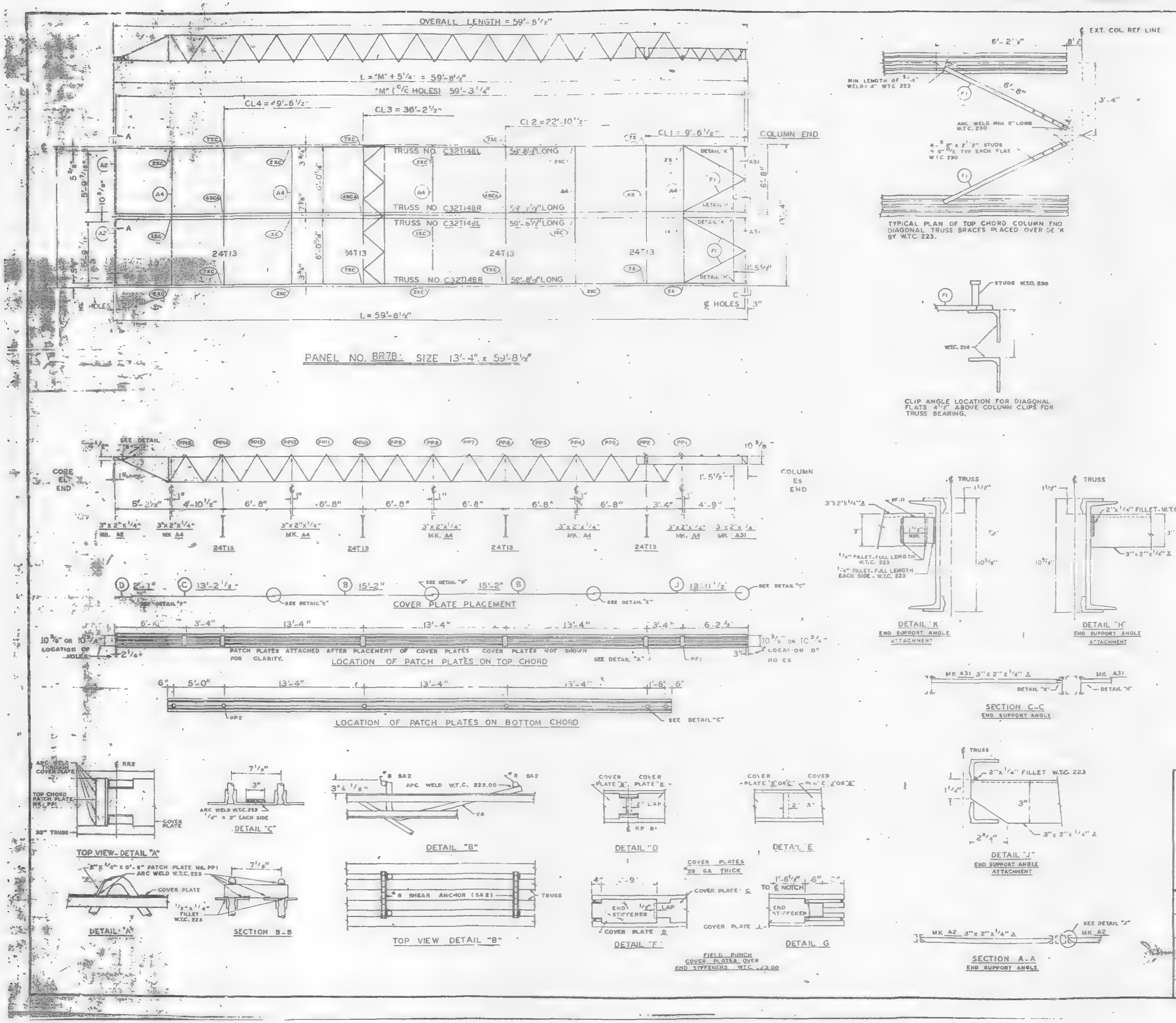
7-AB3-27	10-4-68
7-AB1-[illegible]	10-4-68
7-AB[illegible]-8	7-22-68
7-AB4-28	7-22-68
58-124	3-[illegible]
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
[illegible] CENTER
THE [illegible] OF NEW YORK AUTHORITY

BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST)

PANEL BR7A - 13'-4" x 59'-9"

FABRICATION BY [illegible] STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-27 PLATE
APPROVED FOR FABRICATION FOR PONYA DATE 6/6/69
DRAWN BY [illegible] DATE MAY 8, 1969
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY T.N. CHURA DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY [illegible] WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP BR7A



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL		PCS.	SIZE	DRWG
FLOOR TRUSSES	148L	2	C32T148L x 59'-8 1/2"	ST 2148L
	148R	2	C32T148R x 59'-8 1/2"	ST 2148R
BRIDGING TRUSSES		4	24T13 x 13'-3"	ST 213
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
	A31	2	3"x2"x1/4"x5'-8"	ST 410
CLOSURE PLATES		2	3"x1/4"x2 3/8"	ST 402
DIAGONAL FLATS	F	4	[illegible] x 6'-8"	ST 402
PATCH PLATES	PP	2	2"x1/4"x0'-9"	ST 400
	PP2	12	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2"x1 1/2"x.25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	2	[illegible] x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	4	4 1/2"x .39"x 0'-9"	ST 400
	P3	4	4 1/2"x .39"x 1'-0"	ST 400
	P9	4	3"x 1/2"x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

REF. DRWG.

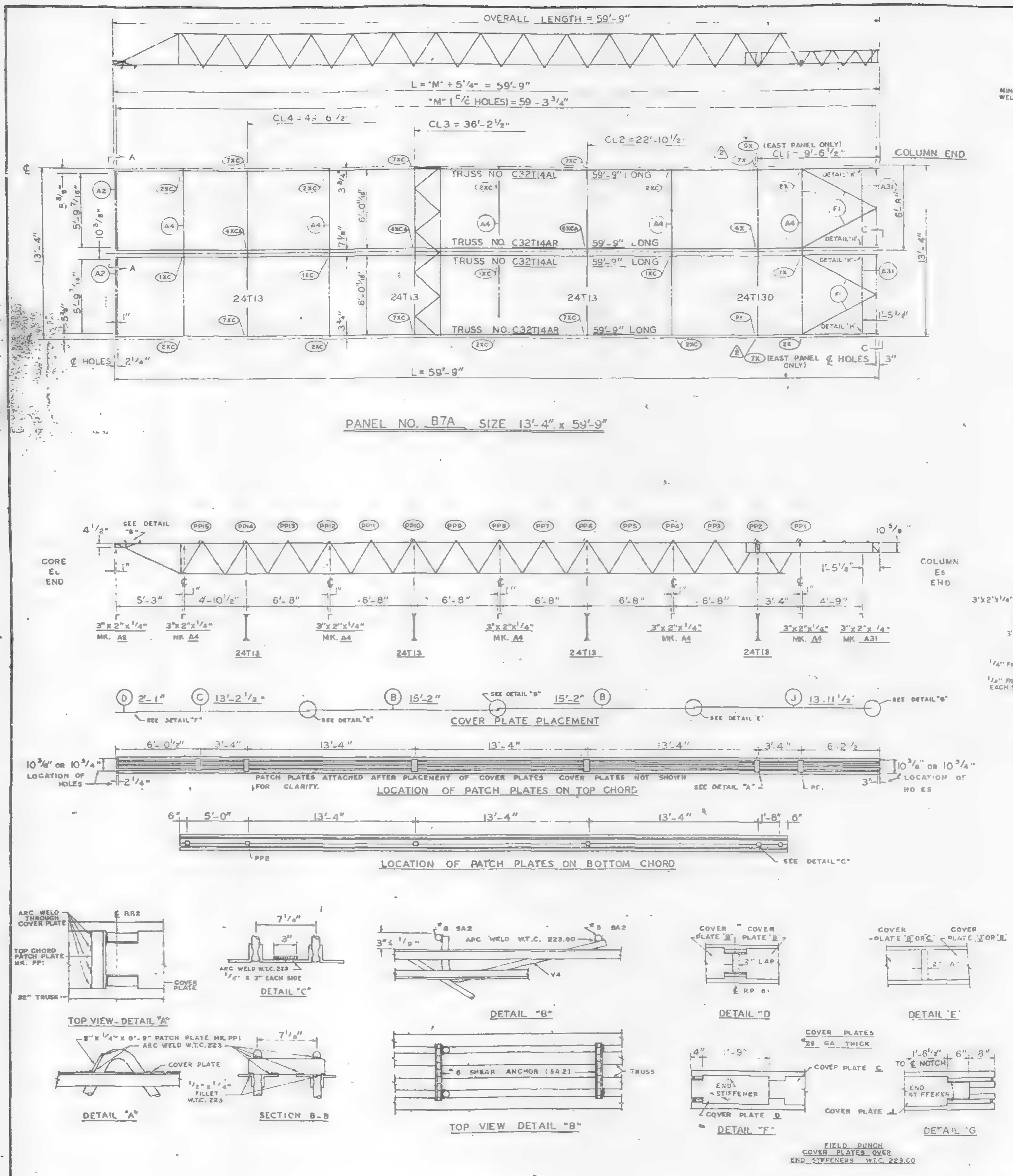
7-AB3-27	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-28	7-22-68
SB-124	3-24-69
7-AB3-24	8-15-68

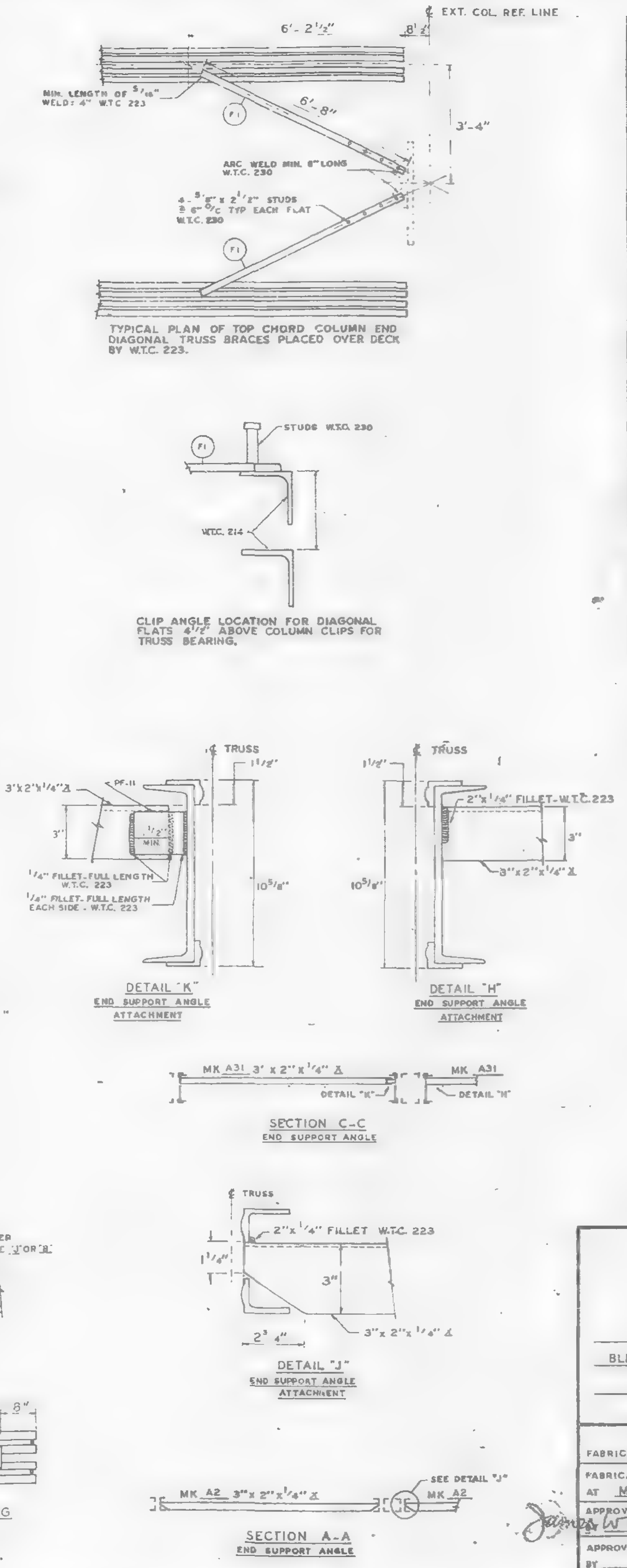
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 5C (WEST)

PANEL BR78-13'-4" x 59'-8 1/2"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-27 PLATE
APPROVED FOR FABRICATION BY [signature] FOR PONYA DATE 6/6/69
DRAWN BY [signature] DATE MAY 8, 1969
APPROVED FOR FABRICATION BY [signature] FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP BR78





REQUIRED MATERIAL PER PANEL				REF DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T14AL	2	C32T14AL x 59'-9"	ST 214AL
	T14AR	2	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3" x 2" x 1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
	A31	2	3"x2"x1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	PF-1	-	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠2	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	3* / 4	4 1/2" x .39" x 0'-9"	ST 400
	P3	3* / 4	4 1/2" x .39" x 1'-0"	ST 400
	P9	4	3" x 1/2" x 1'-2"	ST 409
⚠1	P10	1*	4 1/2" x .39" x 0'-5"	ST 409
	P11	1*	3" x 1/4" x 0'-8"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 62 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

⚠2 MATERIAL MARKED (*) IS FOR WEST PANELS ONLY.

NO.	DATE	REVISION	BY
2	6-13-69	AS NOTED	G.D.C.
1	5-12-69	AS NOTED	G.D.C.

REF. DRWG.

7-A83-26	10-4-68
7-A81-13	10-4-68
7-A82-8	7-22-68
7-A84-28	7-22-68
58-124	3-24-69
7-A83-24	8-15-68

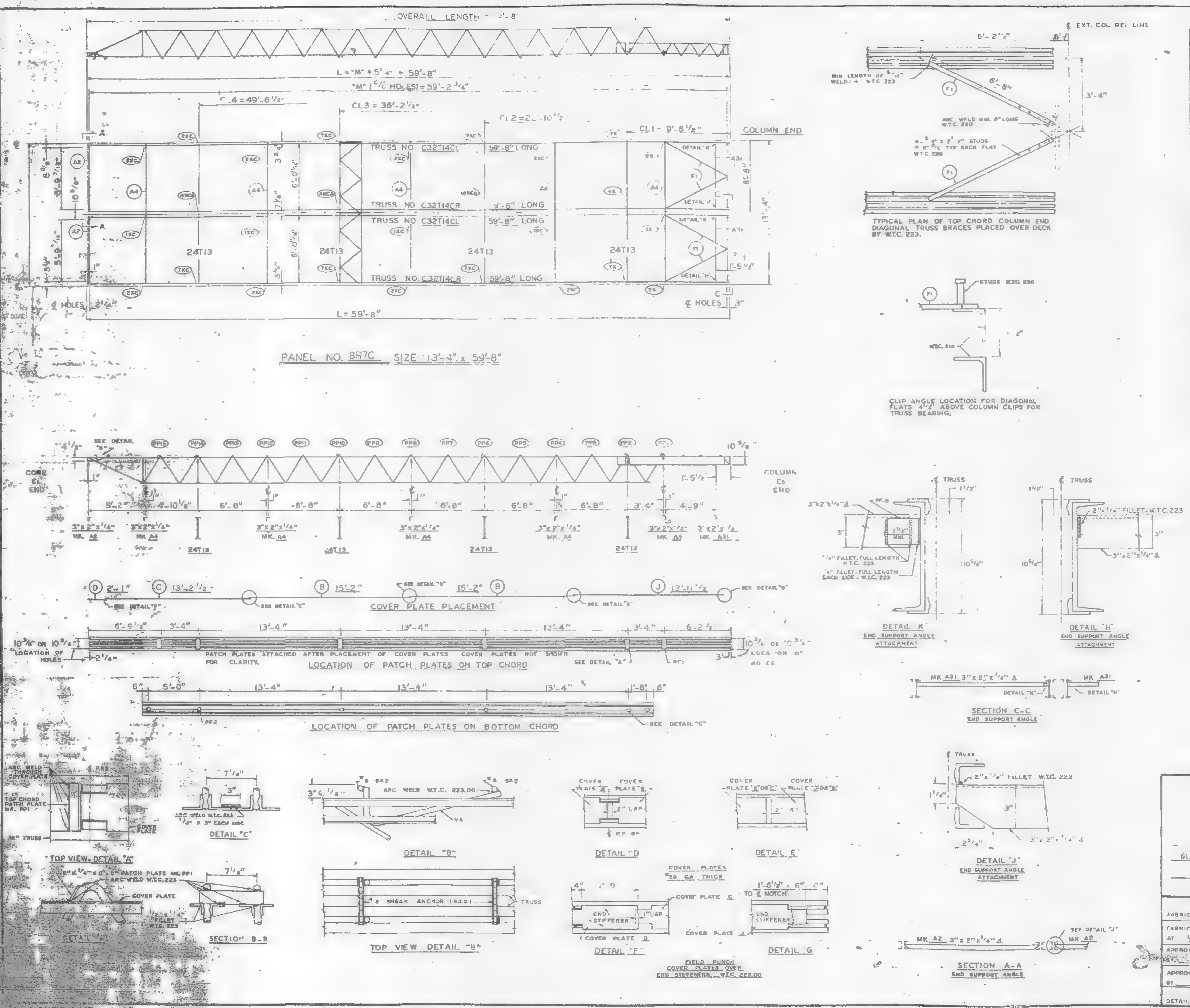
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST)

PANEL B7A-13'-4" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-A83-26	PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A	DATE 6/20/69	DRAWN BY [signature] DATE MAY 6, 1969	
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE MAY 8, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A. C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP B7A



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	14CL	2	C32T14CL x 59'-8"	ST 214CL
	14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	[illegible]	4	24T13 x 13'-3"	ST 213
3" x 2" x 1/4" ANGLE	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
	A31	2	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	[illegible]	2	[illegible] x 0 2 3/8"	ST 412
DIAGONAL FLATS	F1	4	[illegible] x 5/8" x 6' 8"	ST 402
PATCH PLATES	PP	[illegible]	2" x 1/4" x 0'-9	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	B1	5	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3' 2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400
	P8	4	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

NO	DATE	REVISION	BY

REF. DRWG.

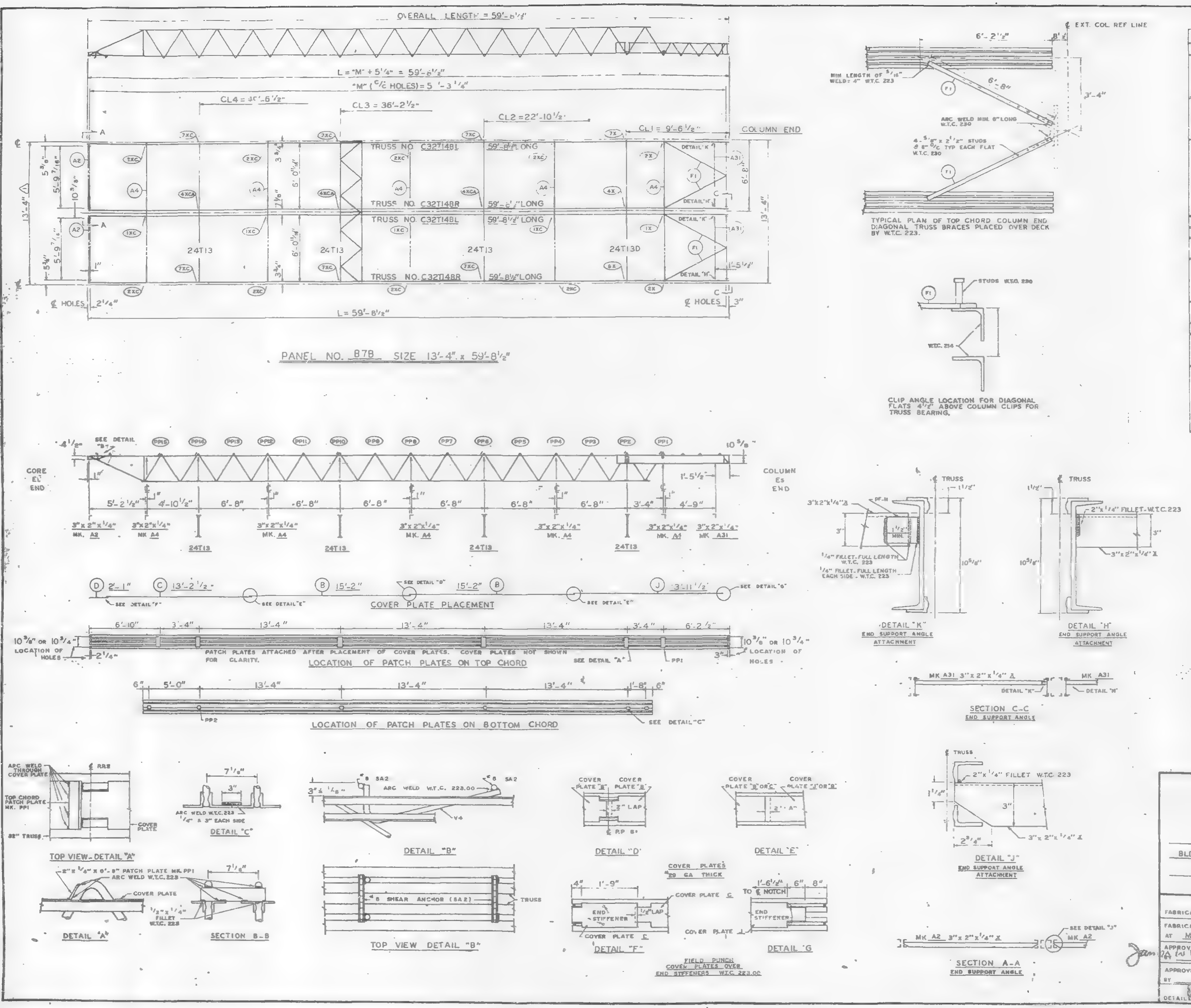
7-AB3-27	10-4-68
7-A31-13	10-4-68
7-AB2-8	7-22-68
7-AB4-26	7-22-68
SB-124	3-24-69
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER [illegible]
FOR
THE [illegible] NEW YORK AUTHORITY

BLDG. B FLOORS 59 & 92 EAST

PANEL BR7C-13'-4" x 59'-8"

FABRICATION BY [illegible] STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-27 PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA DATE 6/6/69
DRAWN BY [illegible] DATE MAY 8, 1969
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY T.M. CHUBA DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP BR7C



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T14BL	2	C32T14BL x 59'-8 1/2"	ST 214BL
	T14BR	2	C32T14BR x 59'-8 1/2"	ST 214BL
BRIDGING TRUSSES	T13	1	24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3"x 2"x 1/4" ANGLE	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A4	5	3"x 2"x 1/4"x 3'-3"	ST 403
	A31	2	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF11	2	3"x 1/4" x 0'-2 3/8"	ST 402
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	2	2"x 1/4" x 0'-9"	ST 400
	PP2	12	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2"x 1 1/2"x .25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠1	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	3	4 1/2"x .39"x 0'-9"	ST 400
	P3	3	4 1/2"x .39"x 1'-0"	ST 400
	P9	4	3"x 1/2"x 1'-2"	ST 409
	P10	1	4 1/2"x .39"x 0'-5"	ST 409
	P11	1	3"x 1/4"x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 62 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	G.D.

REF. DRWG.

7-AB3-26	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-28	7-22-68
SB-124	3-24-69
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 92 (WEST)

PANEL B7B - 13'-4" x 59'-8 1/2"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-AB3-26 PLATE

APPROVED FOR FABRICATION BY FOR P O N Y A DATE 5/16/69

DRAWN BY DATE MAY 8, 1969

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

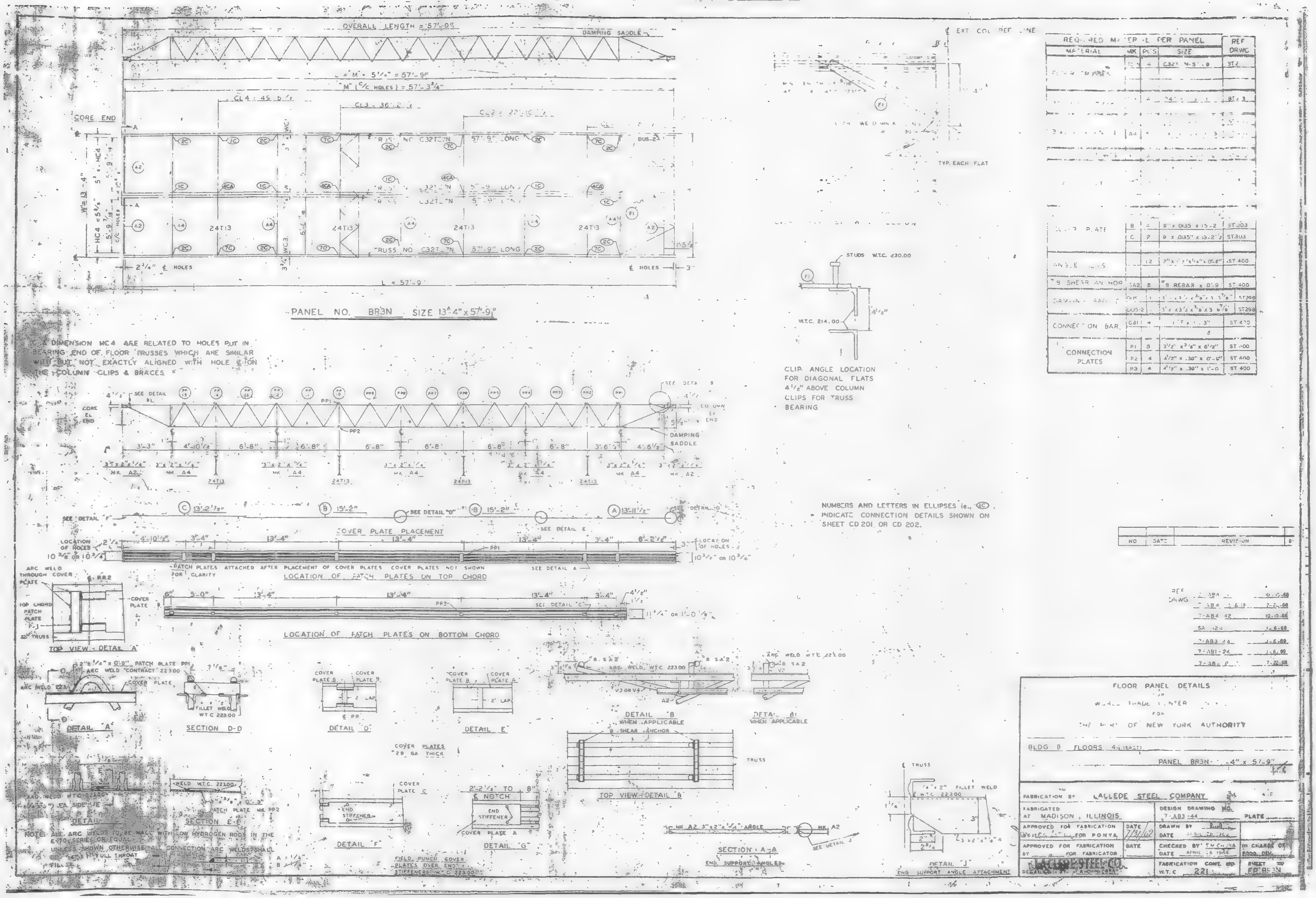
CHECKED BY T.M. CHURA DATE MAY 8, 1969

IN CHARGE OF PROD. DEV.

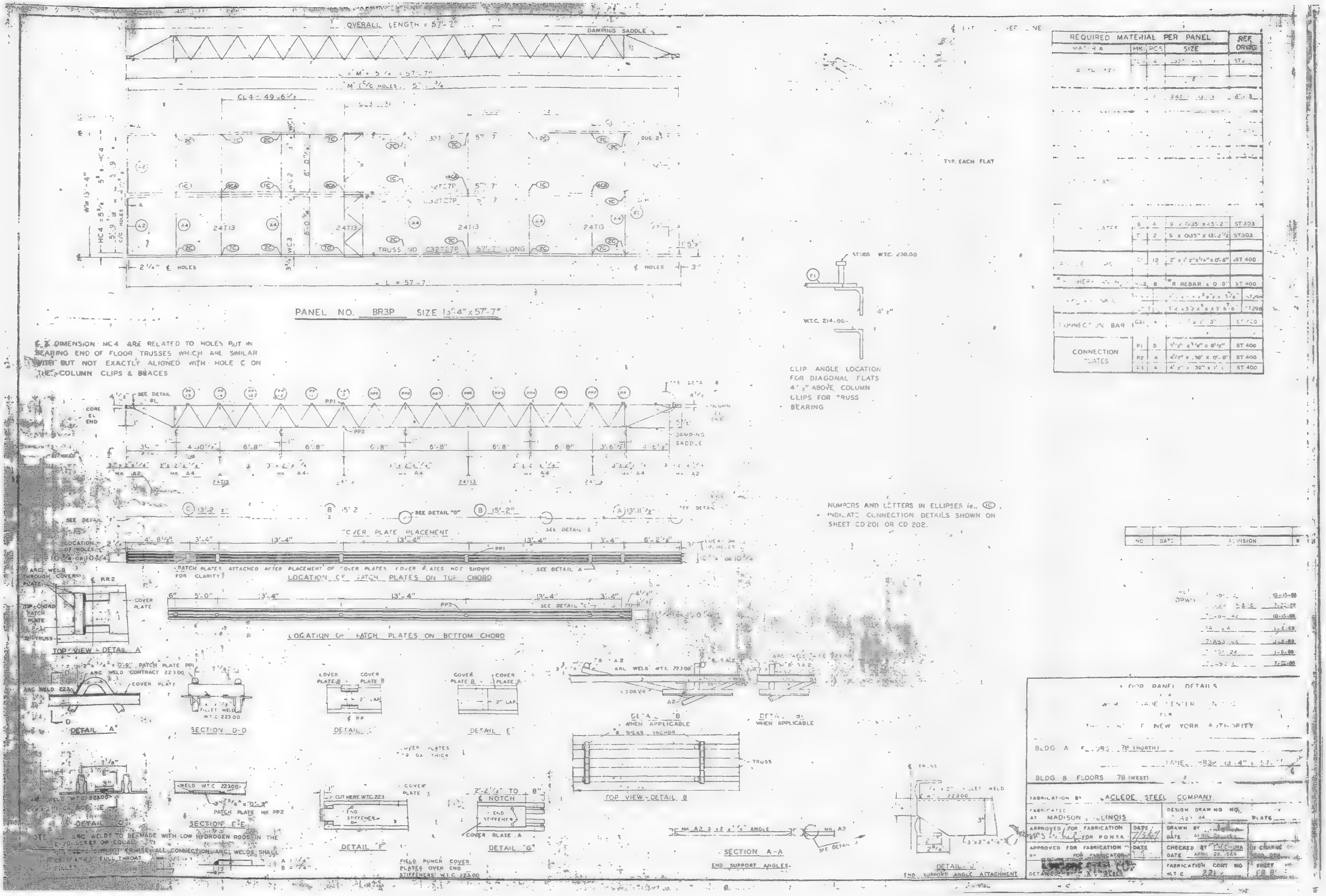
DETAILED BY A.C. WEBER

FABRICATION CONT. NO W T C 221

SHEET NO FP B7B



OVERALL LENGTH = 57'-9"
DAMPING SADDLE
"M" + 5 1/4" = 57'-9"
"M" (C/C HOLES) = 57'-3 3/4"
CORE END
TRUSS NO. C32T... 57'-9" LONG
24T13
L = 57'-9"
PANEL NO. BR3N SIZE 13'-4" x 57'-9"
W & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES
SEE DETAIL B
COLUMN END
DAMPING SADDLE
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "B1" WHEN APPLICABLE
SHEAR ANCHOR
TOP VIEW - DETAIL "B"
COVER PLATES 20 GA THICK
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A END SUPPORT ANGLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT
EXT. COL. REF. LINE
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
NUMBERS AND LETTERS IN ELLIPSES (i.e., 4C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201 OR CD 202.
REQUIRED MATERIAL FOR PANEL
COVER PLATE
ANGLE
SHEAR ANCHOR
CONNECTION BAR
CONNECTION PLATES
NO. DATE REVISION
FLOOR PANEL DETAILS
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG B FLOORS 44 (EAST)
PANEL BR3N 13'-4" x 57'-9"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-44
APPROVED FOR FABRICATION FOR PONYA
APPROVED FOR FABRICATION BY FOR FABRICATOR
CHECKED BY T.M.C.
DATE APRIL 25 1969
LACLEDE STEEL CO.
FABRICATION CONT. NO. W.T.C. 221
SHEET FP BR3N



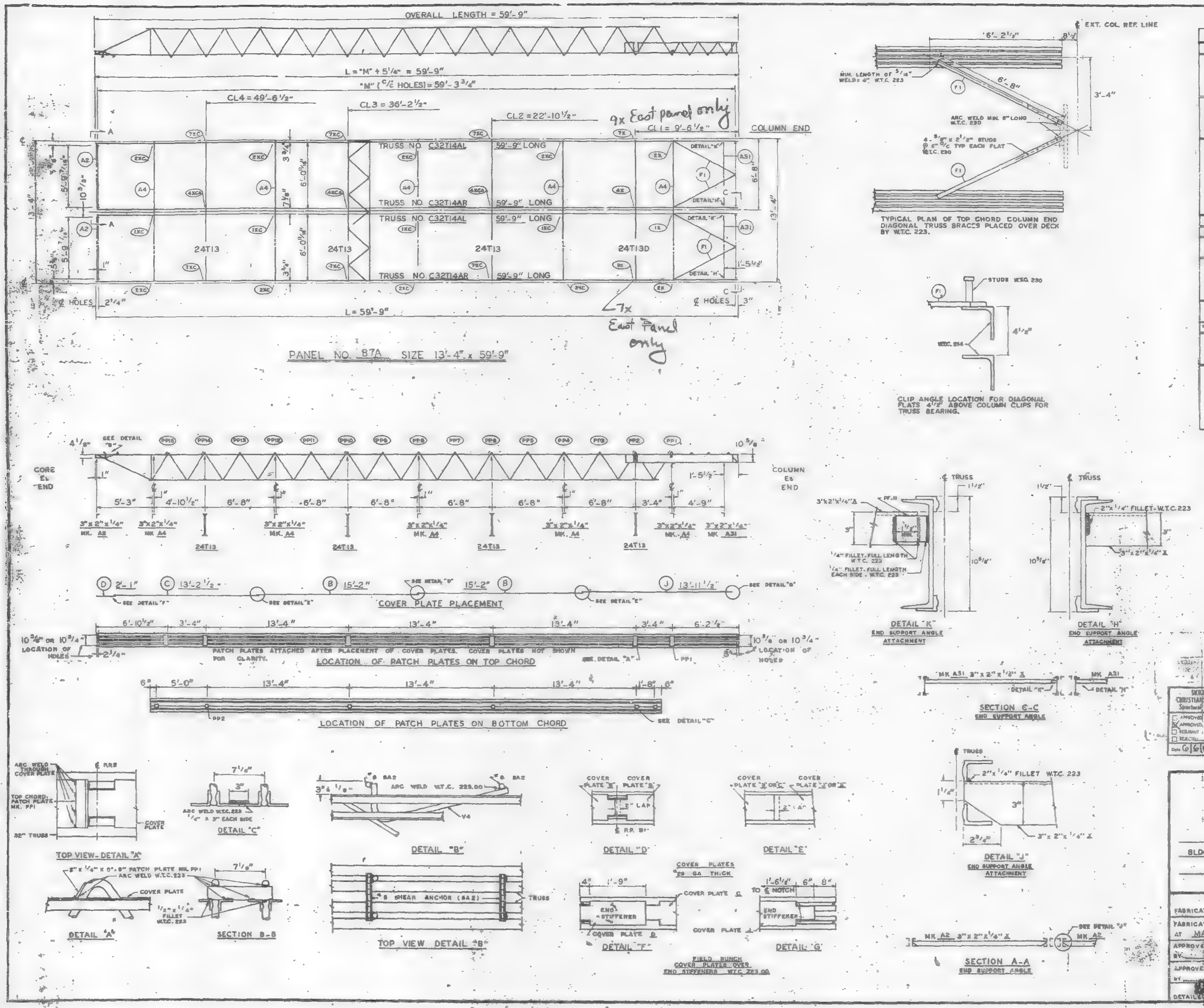
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
		4		ST
			24T 13	
PLATES	B	4	9 x 0.135 x 15'-2"	ST 303
	E	2	9 x 0.135" x 13'-2 1/2"	ST 303
		12	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
		8	#8 REBAR x 0'-9"	ST 400
				ST 298
			3 1/2 x 3 1/2 x 3/8 x 3'-6 7/8"	ST 298
CONNECTION BAR	CS1	4	x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-8"	ST 400
	P3	4	4 1/2" x .30" x 1'-	ST 400

NO.	DATE	REVISION

FLOOR PANEL DETAILS
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 78 (NORTH)
PANEL BR3P 13'-4" x 57'-7"
BLDG. B FLOORS 78 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAW NO. A8 44
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 7/3/69
DRAWN BY DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY DATE APRIL 28, 1969
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FB 8



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	2	C32T14AL x 59'-9"	ST 214AL
	T14AR	2	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T130	1	24T130 x 13'-3"	BT 2130
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
	A31	2	3"x2"x1/4"x5'-8 1/3"	ST 410
CLOSURE PLATES	PF-11	2	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-8"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	?	9"x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	36	2"x 1 1/2"x .25"x 8"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES ⚠1	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	3 *4	4 1/2" x .39" x 0'-9"	ST 400
	P3	*4	4 1/2" x .39" x 1'-0"	ST 400
	P8	4	3" x 1/2" x 1'-2"	ST 40[illegible]
	P10	1 *	4 1/2" x .39" x 0'-5"	ST 4[illegible]
	P11	1 *	3" x 1/4" x 0'-6"	ST 40[illegible]

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

Material marked * is for West panel only

NO.	DATE	REVISION	BY
⚠1	5-12-6[illegible]	AS NOTED	G.D.

SKILLING - HELLE
CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
Date 6/6/69 By SK

REF DRWG.

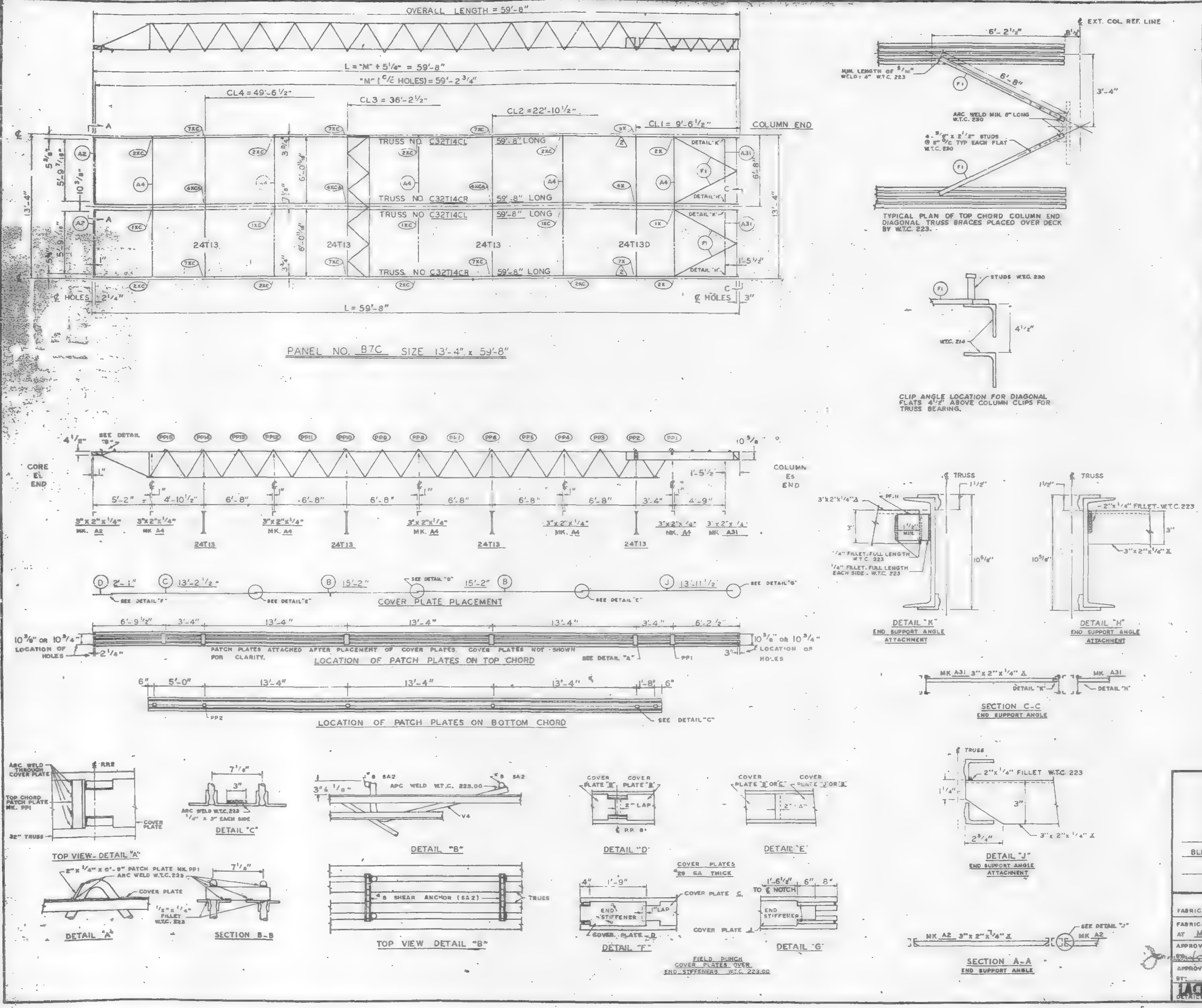
7-A83-28	10-4-68
7-A81-13	10-4-68
7-A82-8	7-22-68
7-A84-28	7-22-68
S8-124	3-24-69
7-A83-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST)

PANEL B7A - [illegible] 4" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-26 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY [illegible] DATE MAY 8, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE MAY 8, 1969
IN CHARGE OF PROD. DEV.
[redacted]
DETAILED BY A. [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP B7A



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4"x 13'-3"	ST 403
	A31	2	3"x2"x1/4"x 5'-8 3/8"	ST 410
CLOSURE PLATES	PF-11	2	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES (2)	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400
	P9	4	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
2	6-16-69	AS NOTED	G.D.
1	5-12-69	AS NOTED	G.D.

REF DRWG.

7-AB3-26	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-28	7-22-68
5B-124	3-24-69
7-AB3-24	8-15-68

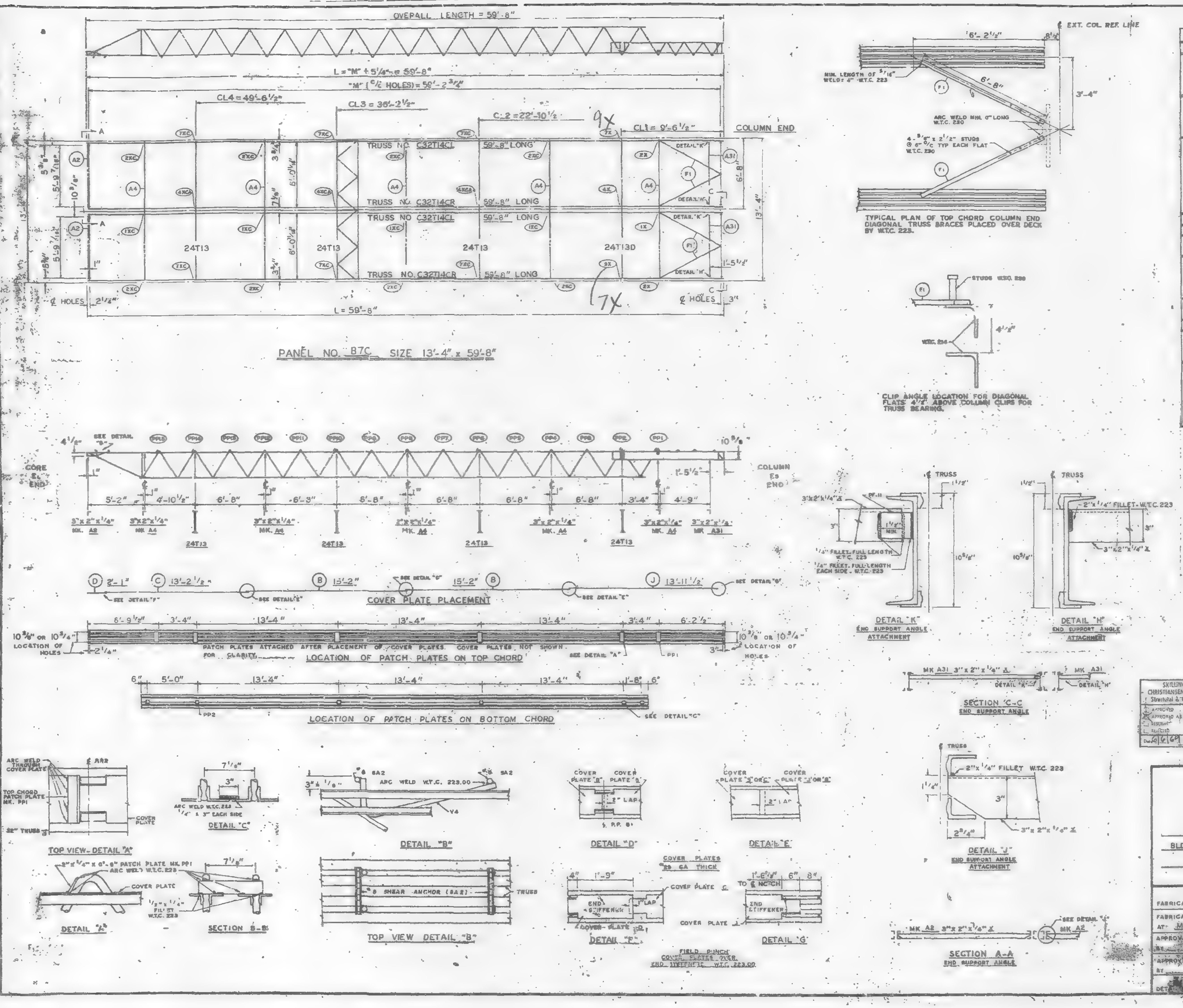
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 59 & 92 (EAST)

PANEL B7C - 13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-26	PLATE 2
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A.	DATE 7/28/69	DRAWN BY ______ DATE MAY 8, 1969	
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR	DATE	CHECKED BY T.M. CHUBA DATE MAY 8, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY		FABRICATION CONT NO W.T.C. 221	SHEET NO FP B7C



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	ST 213
	T13D	1	24T13D x 13'-3"	ST 213D
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 5/16"	ST 403
	A4	5	3"x2"x1/4"x13'-3"	ST 403
	A31	2	3"x2"x1/4"x5'-8 1/8"	ST 416
CLOSURE PLATES	PF-11	2	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2" x 1 1/2" x .25" x 8"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	3	4 1/2" x .39" x 0'-9"	ST 400
	P3	3	4 1/2" x .39" x 1'-0"	ST 400
	P8	4	3" x 1/2" x 1'-2"	ST 409
	P10	1	4 1/2" x .39" x 0'-5"	ST 409
	P11	1	3" x 1/4" x 0'-6"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	G.D.

SKILLING - HELLE - CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
APPROVED
APPROVED AS NOTED
RESUBMIT
REJECTED
Date 6/6/69 By SK

REF. DRWG.

7-AB1-20	10-1-68
-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-2*	7-22-68
30-124	3-24-69
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. 8 FLOORS 59 & 92 (EAST)

PANEL B7C - 13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-26

DATE

APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE

DRAWN BY
DATE MAY 8, 1969

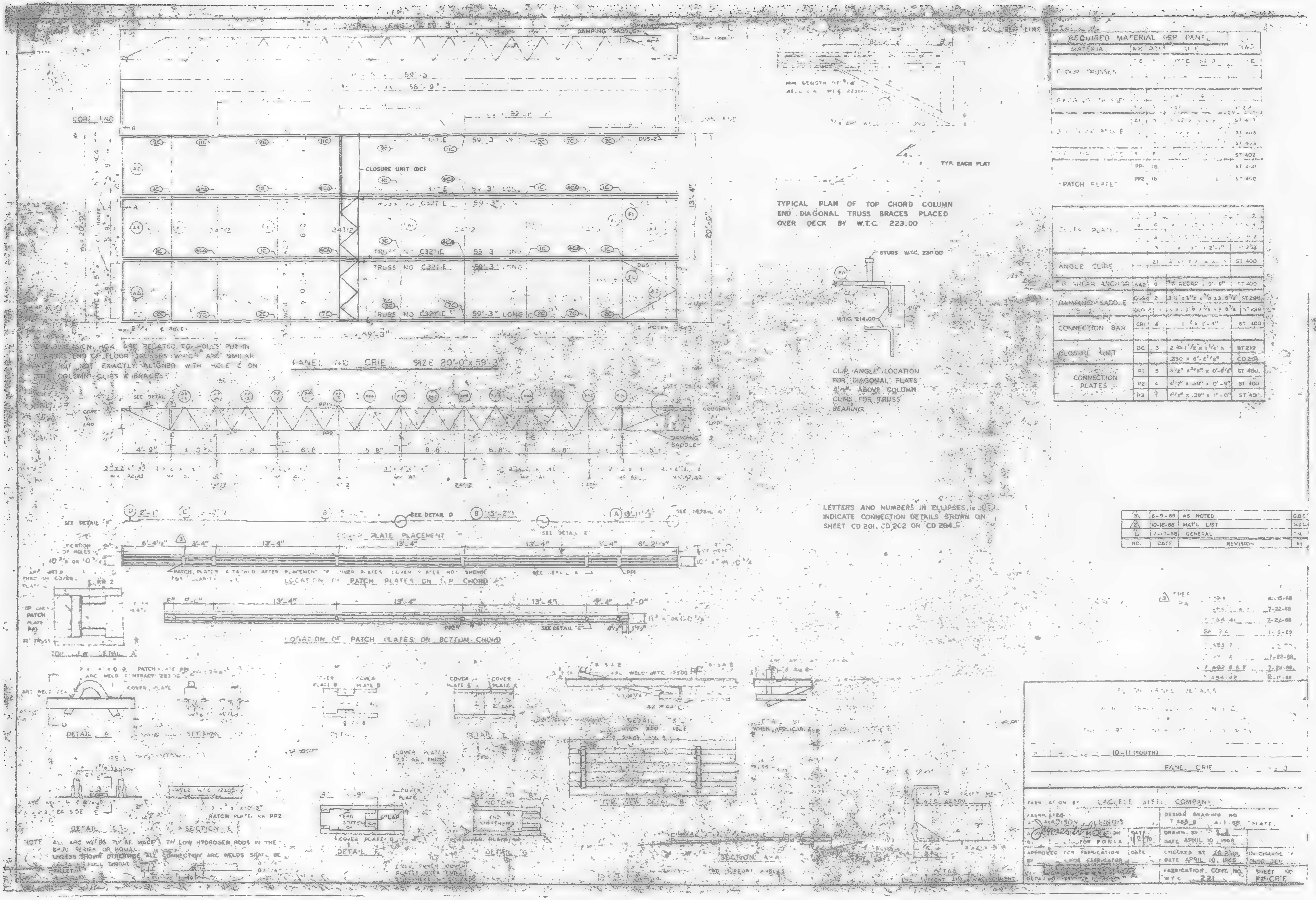
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

CHECKED BY T.M. CHURA
DATE MAY 8, 1969

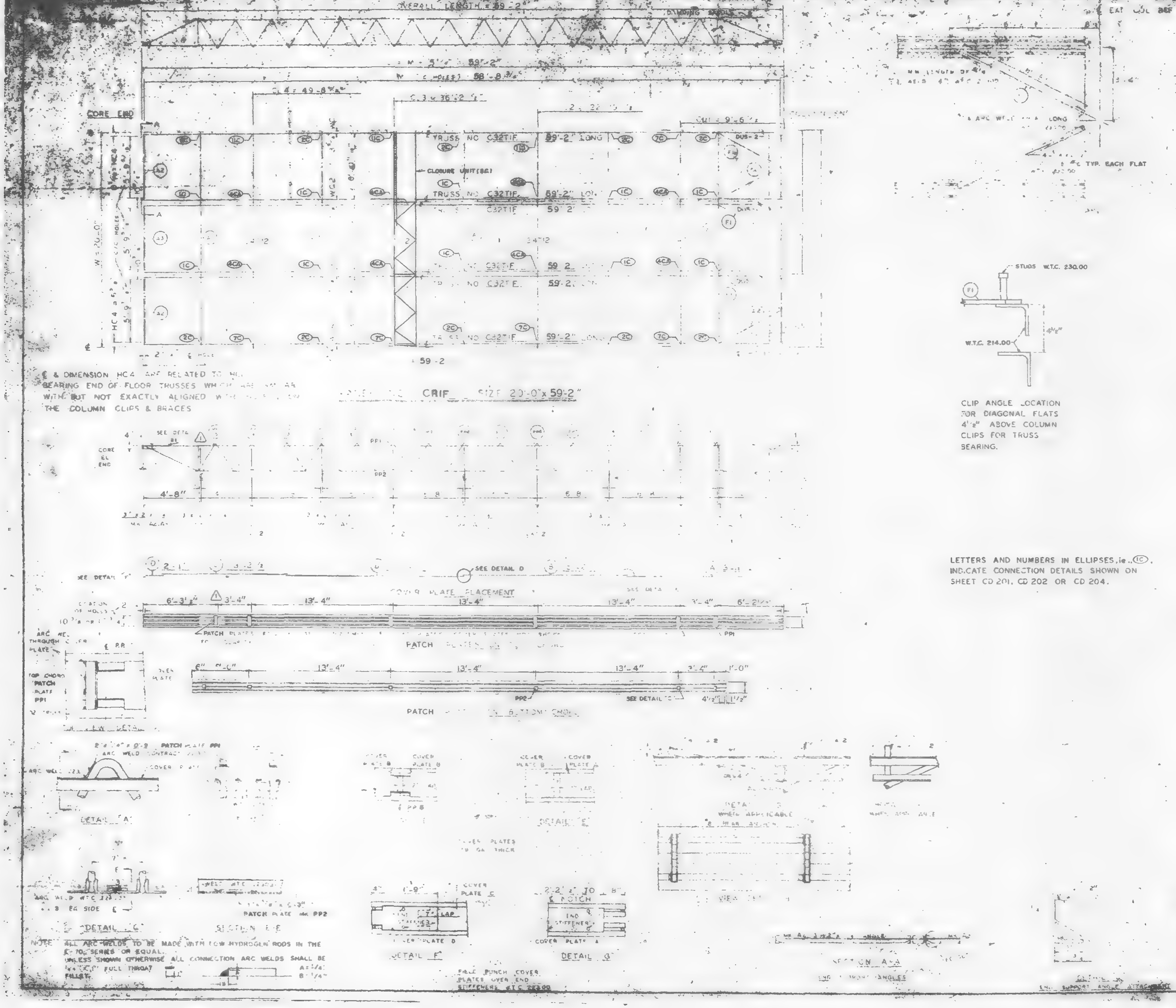
IN CHARGE OF PROD. DEV.

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FP B7C



OVERALL LENGTH 59'-3"
DAMPING SADDLE
CORE END
CLOSURE UNIT (BC)
TRUSS NO. C32T E 59'-3" LONG
PANEL NO. CRIE SIZE 20'-0" x 59'-3"
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
TYP. EACH FLAT
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
REQUIRED MATERIAL PER PANEL
PATCH PLATES
ANGLE CLIPS
SHEAR ANCHOR
DAMPING SADDLE
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
6-9-69 AS NOTED
10-16-68 MAT'L LIST
7-17-68 GENERAL
NO. DATE REVISION
SEE DETAIL D
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
TOP VIEW DETAIL "A"
DETAIL "B"
SECTION
DETAIL "E"
WHEN APPLICABLE
TOP VIEW DETAIL "B"
DETAIL "C"
SECTION
DETAIL "F"
DETAIL "G"
SECTION "A-A"
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT.
10-11 (SOUTH)
PANEL CRIE
FABRICATION BY LACLEDE STEEL COMPANY
MADISON, ILLINOIS
DESIGN DRAWING NO.
DRAWN BY
DATE APRIL 10, 1968
APPROVED FOR FABRICATION
CHECKED BY J.B. PAUL
DATE APRIL 10, 1968
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO. WTC 221
SHEET NO. FP-CRIE



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T1F	6	C32T1F x 59'-2"	ST201F
BRIDGING TRUSSES	[illegible]	1	24T11 - 19'-11"	BT211
	T2	3	24T12 - 19'-11"	BT212
3 x 2" x 1/4 ANGLE	A1	5	3 x 2" x 1/4 x [illegible]	ST 403
	A2	4	3 x 2" x 1/4 x [illegible]	ST 403
	A3	2	3 x 2" x 1/4 x [illegible]	ST 403
DIAGONAL FLATS	F1	6	[illegible] x 6'-8"	ST 403
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	8	[illegible]	ST 400
	[illegible]	3	[illegible]	ST303
	[illegible]	[illegible]	.35 x 5 [illegible]	ST303
	[illegible]	3	[illegible] .35 x [illegible]	ST303
		3	[illegible] x 2'-1"	ST303
[illegible]		21	[illegible]	ST 400
SHEAR ANCHORS	S	9	[illegible] REBAR x 0'-8"	ST 400
DAMPING SADDLE	[illegible]	[illegible]	[illegible] x 3 8 7/8"	ST298
	[illegible]	[illegible]	[illegible] 3' 8 7/8	ST298
CONNECTION BAR	CB1	4	[illegible] x 1'-[illegible]	ST 400
CLOSURE UNIT	BC	3	[illegible] 1/2 x 1 1/4" x	BT212
			.230 x 6'-6 1/2"	[illegible]204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-9-69	AS NOTED	GDC

10-15-68
7-22-68
7-22-[illegible]
1-6-69
7-22
7-22
10-15-68

THE PORT OF NEW YORK AUTHORITY

47-48 (S) 47-48, 70-71 (N)

PANEL CRIF [illegible] x 59'-2"

BLDG. 8 FLOORS 47-48 (EAST & WEST) 70-71 (WEST)

COMPANY

DESIGN DRAWING NO. [illegible] 8

APPROVED FOR FABRICATION: James White DATE 1/2/70

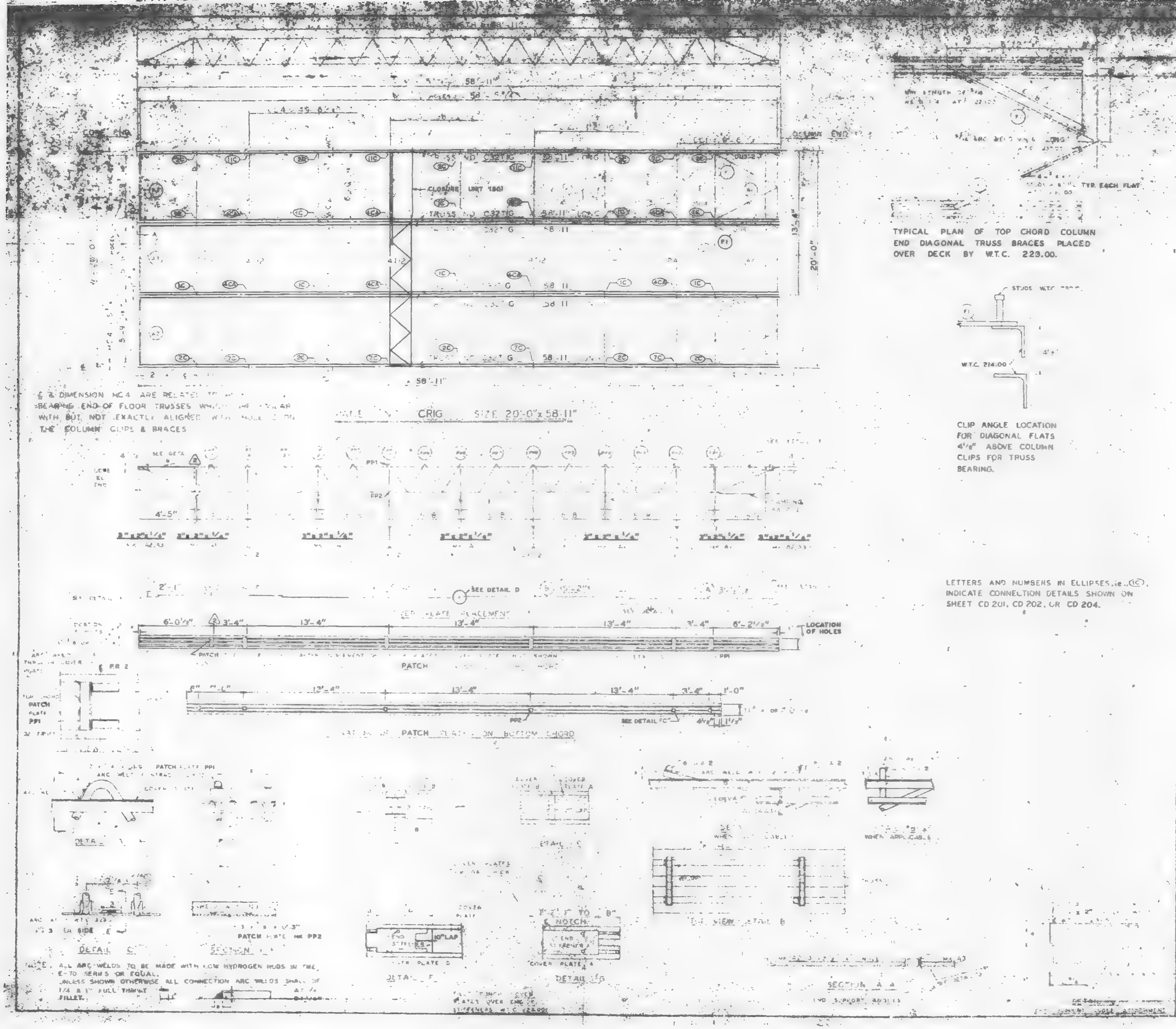
DRAWN BY [illegible] DATE OCT. 23, 1968

CHECKED BY T.M.CHURA DATE OCT. 23, 1968

IN CHARGE OF PROD. DEV.

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FP-CRIF



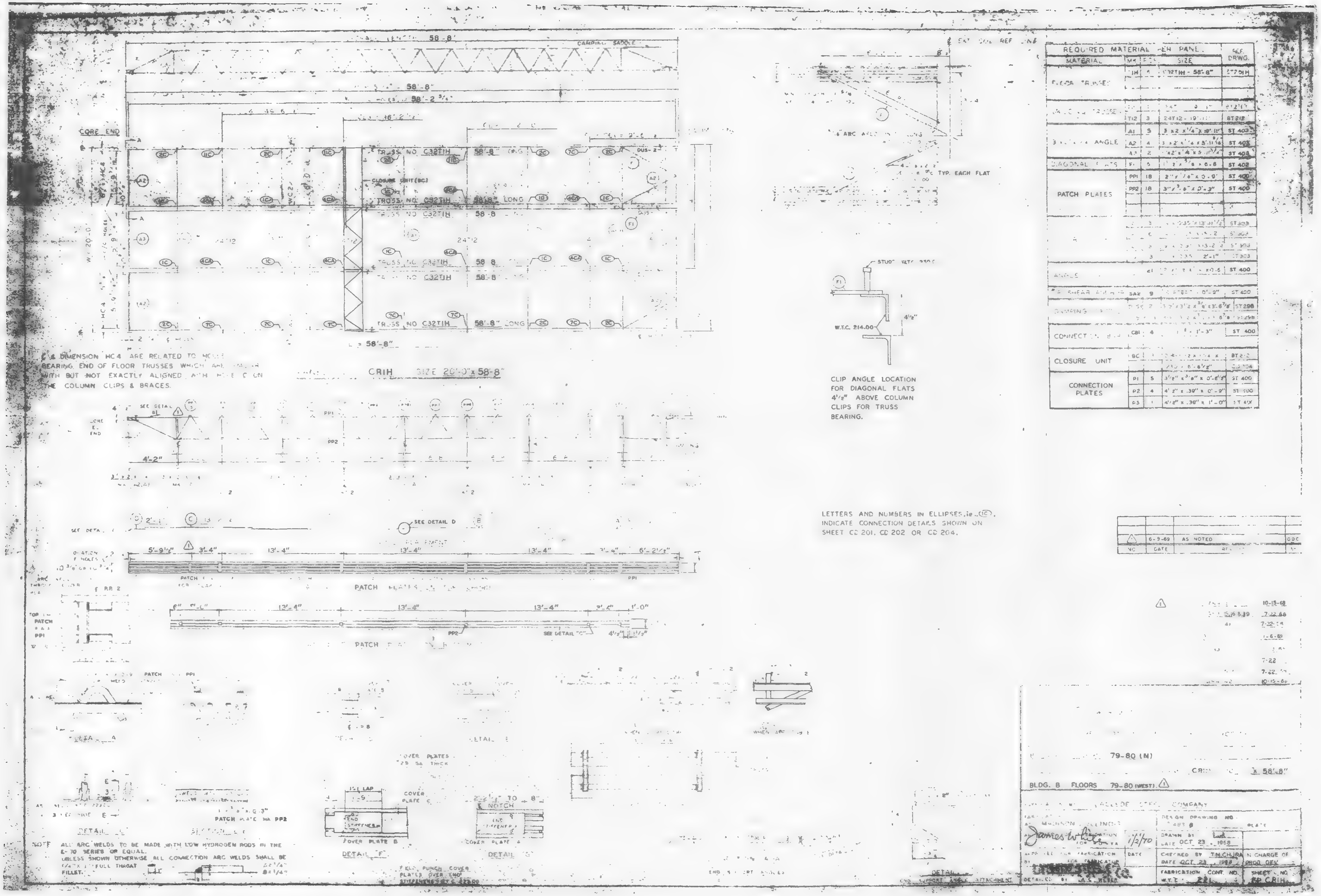
REQUIRED MATERIAL PER PANEL	MK	NO.	SIZE	REF. DRWG.
FLOOR TRUSSES	1G	6	C32T1G - 58'-11"	ST 216
BRIDGING TRUSSES	T11	3	24T11 - 19 [illegible]	ST 211
	T12	3	24T12 - 19 - 11"	ST 212
[illegible] ANGLE	A1	6	3 x 2 x 1/4 x [illegible]	ST 403
	A2	4	[illegible]	ST 403
	A3	2	[illegible]	ST 403
DIAGONAL FLATS	F1	6	[illegible]	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible] 0'-3"	ST 400
[illegible]		21	[illegible]	ST 400
[illegible]	SA2	3	[illegible] 0'-8"	ST 400
CONNECTION BAR	CB1	4	[illegible] 1'-3"	ST 400
CLOSURE UNIT	BC	3	[illegible]	[illegible]
			230 x 5'-6 1/2"	[illegible]
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-9"	ST 400
	P3	1	4 1/2" x .38" x 1'-0"	ST 400

NO.	DATE	REVISION	
2	6-9-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	

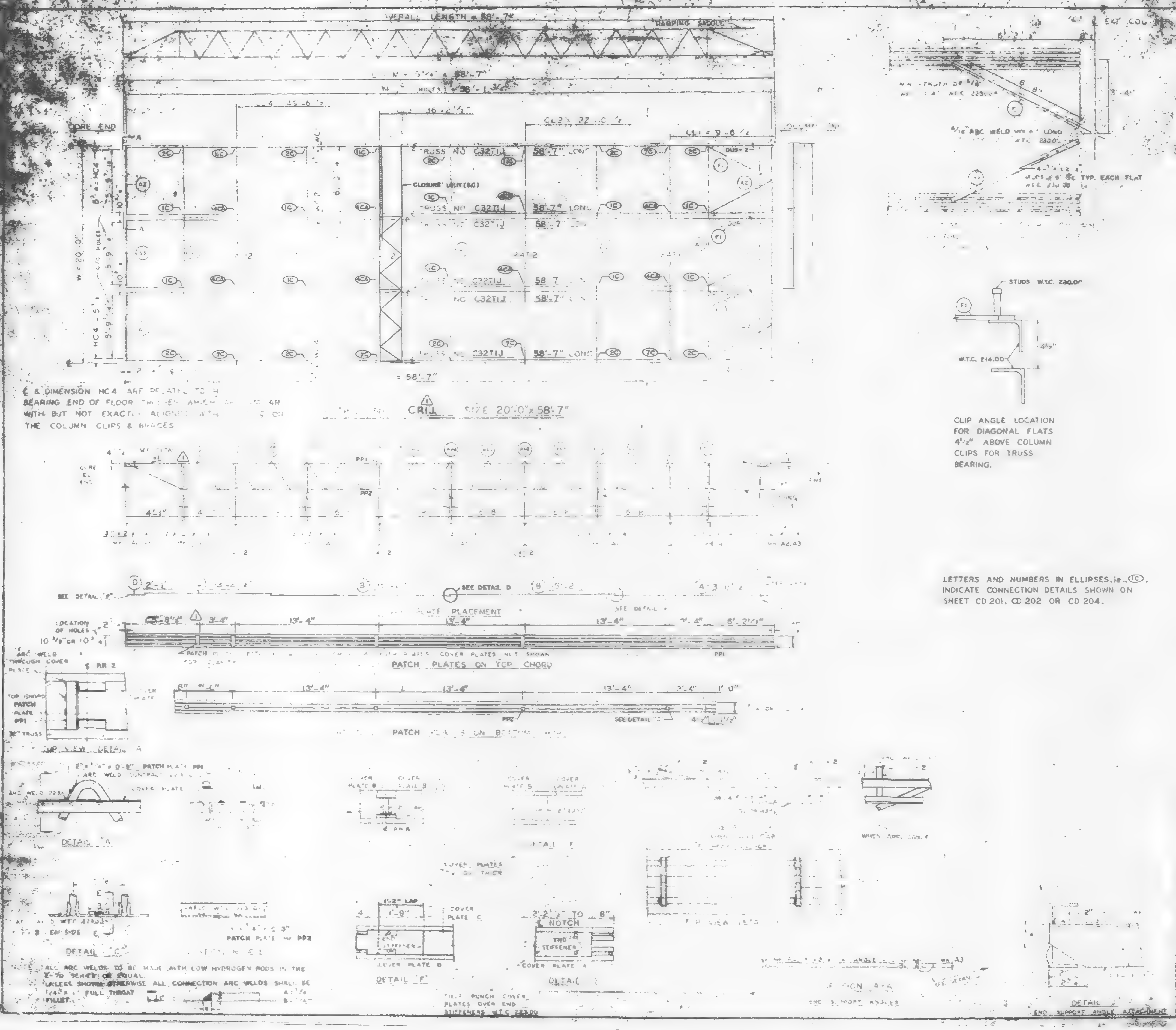
10-15-68
7-22-68
7-22-68
1-6-69
AB3-2
7-22-68
7-22-68
AB4-A2 10-15-68

BLDG. [illegible] 39 (NORTH & SOUTH) 40 (SOUTH) 10-11 (NORTH)
PANE CRIG [illegible] 58'-11"
BLDG. B FLOORS 39 (EAST & WEST) 40 (EAST) 2

FABRICATION BY [illegible] STEEL COMPANY
DESIGN DRAWING NO. [illegible]493 B
James White 1/2/70
DRAWN BY [illegible] DATE APRIL 10, 1968
CHECKED BY J.R. PAUL DATE APRIL 10, 1968
PROD. DEV.
FABRICATION CONT. NO. 221
SHEET NO. FE CRIG



58'-8"
CAMPING SADDLE
CORE END
TRUSS NO C32T1H 58'-8" LONG
CLOSURE UNIT (BC)
TRUSS NO C32T1H 58'-8" LONG
TRUSS NO C32T1H 58'-8"
24T12
TRUSS NO C32T1H 58'-8"
TRUSS NO C32T1H 58'-8" LONG
L = 58'-8"
DIMENSION HC4 ARE RELATED TO HOLE
BEARING END OF FLOOR TRUSSES WHICH ARE
WITH BUT NOT EXACTLY ALIGNED WITH HOLE C
THE COLUMN CLIPS & BRACES.
CRIH SIZE 20'-0" x 58'-8"
SEE DETAIL
4'-2"
SEE DETAIL D
5'-9 1/2" 3'-4" 13'-4" 13'-4" 13'-4" 3'-4" 6'-2 1/2"
PATCH PLATES
6" 13'-4" 13'-4" 13'-4" 2'-4" 1'-0"
SEE DETAIL "C"
PATCH PLATE
REQUIRED MATERIAL PER PANEL
MATERIAL | MK | SIZE | REF. DRWG.
FLOOR TRUSSES | 1H | C32T1H - 58'-8" | ST 291H
T12 | 3 | 24T12 - 19'-11" | BT 212
ANGLE | A1 | 5 | ST 403
A2 | 4 | ST 403
A3 | 2 | ST 403
DIAGONAL FLATS | F1 | 5 | ST 402
PATCH PLATES | PP1 | 18 | ST 400
PP2 | 18 | ST 400
SHEAR ANGLE | SA2 | 9 | ST 400
CONNECTION BAR | CB1 | 4 | 1'-3" | ST 400
CLOSURE UNIT | BC | BT 212
CONNECTION PLATES | P1 | 5 | 3 1/2" x 3/8" x 0'-8 1/2" | ST 400
P2 | 4 | 4 1/2" x .39" x 0'-9"
P3 | 1 | 4 1/2" x .39" x 1'-0"
CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4 1/2" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING.
W.T.C. 214.00
4 1/2"
TYP. EACH FLAT
LETTERS AND NUMBERS IN ELLIPSES, ie. (1C),
INDICATE CONNECTION DETAILS SHOWN ON
SHEET CD 201, CD 202 OR CD 204.
6-9-69 AS NOTED
NO. DATE
10-15-68
7-22-69
COVER PLATES
DETAIL "F"
DETAIL "G"
NOTCH
COVER PLATE B
END STIFFENER
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE
E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE
1/4" x FULL THROAT
FILLET.
PATCH PLATE MK PP2
79-80 (N)
CRIH x 58'-8"
BLDG. B FLOORS 79-80 (WEST)
COMPANY
MADISON, ILLINOIS
DESIGN DRAWING NO.
PLATE
DRAWN BY
DATE OCT. 23, 1968
CHECKED BY T.M. CHURA
DATE OCT. 23, 1968
IN CHARGE OF PROD. DEV.
APPROVED FOR FABRICATION
1/2/70
DATE
FABRICATION CONT. NO.
SHEET NO. FP CRIH
DETAILED BY A.S. WEBER
END SUPPORT ANGLE ATTACHMENT



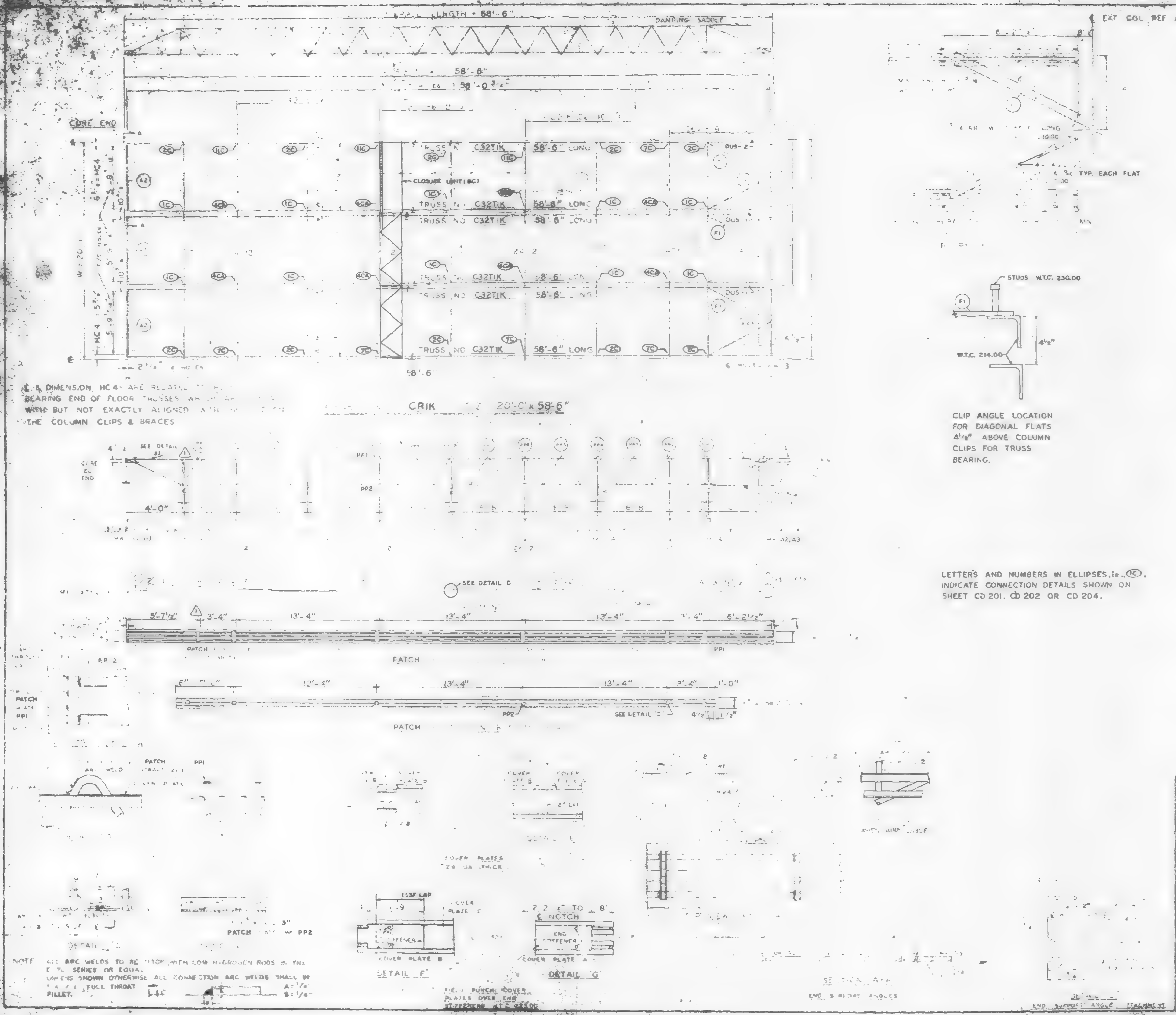
REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	REF. DRWG.
FLOOR TRUSSES	T1J	6	C32T1J - 58'-7"	[illegible]
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT212
	T12	3	24T12 - 19'-11"	BT212
3"x2"x1/4" ANGLE	A1	8	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x [illegible]	ST 402
	A3	2	3"x2"x1/4"x [illegible]	ST 403
DIAGONAL FLATS	F1	8	1 1/2"x 3/8"x 6'-8"	ST 402
PATCH PLATES	PP1	18	2"x 1/4"x 0'-9"	ST 400
	PP2	18	3"x 3/8"x 0'-3"	ST 400
[illegible]	A	3	[illegible] .0135"x 13'-11 1/2"	ST 303
	B	6	[illegible] x .0135"x 15'-2"	ST 303
	C	3	[illegible] x .0135"x 13'-2 1/2"	ST 303
	D	3	[illegible] x .0135"x 2'-1"	ST 303
ANGLE CLIPS	[illegible]	21	[illegible] x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	[illegible] BAR x 0'-9"	ST 400
[illegible]	[illegible]	2	[illegible] 3 1/2"x 3/8"x 3'-6 7/8"	ST 298
	[illegible]	[illegible]	[illegible] x 3/8"x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1 1/2"x 1 1/4"x 230 x 6'-6 1/2"	BT 212, C [illegible] 204
CONNECTION PLATES	P1	5	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	4	4 1/2"x .39"x 0'-9"	ST 400
	P3	1	4 1/2"x .39"x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-9-69	AS NOTED	G.D.C.

10-15-69
7-22-68
7-22-68
1-6-69
1-3-68
7-22-68
7-22-68
A84 42 10-15-68

FLOOR PANEL DETAILS
WORLD TRADE CENTER - N.Y.C.
THE PORT OF NEW YORK AUTHORITY
40 (N)
CRIJ x 58'-7"
BLDG. B FLOORS 40 (WEST) (1)

FABRICATION BY LACLEDE STEEL COMPANY
DESIGN DRAWING NO. ABS-8 PLATE
MADISON, ILLINOIS
APPROVED FOR FABRICATION BY James White FOR PONYA DATE 1/2/70
DRAWN BY DATE OCT 23, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHUB DATE OCT 23, 1968 IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.
FABRICATION CONTROL W.S.C.



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIK	6	C32TIK - 58'-6"	ST201K
BRIDGING TRUSSES	[illegible]	1	24T[illegible] - 19'-11"	ST2[illegible]
	T12	3	24T12 - 19'-11"	ST212
3 x 2" x 1/4" ANGLE	A1	5	3 x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	3	[illegible] x .035" x 13'-11 1/2"	ST303
	B	6	9" x .0135" x 13'-2"	ST303
	C	3	9" x .0135" x 13'-2 1/2"	ST303
	D	3	[illegible] x .035" x 2'-1"	ST303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-8"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST 298
	DUS 2	1	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST 298
CONNECTION BAR	CB1	4	1" Ø x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 ∠s 1 1/2" x 1 1/4" x .230 x 6'-6 1/2"	ST 212 / CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-9-69	AS NOTED	G.D.C.

10-15-68
7-22-68
7-22-68
1-6-69
1-3-69
7-22-68
7-22-68
7 AB4 42 10-15-69

45-46 (S) 46 (N)

PANEL CRIK 20'-0" x 58'-6"

BLDG. B FLOORS 45 (EAST) 46 (EAST & WEST)

COMPANY

DESIGN DRAWING NO. 7 483-8

APPROVED FOR FABRICATION: James White — DATE 1/2/70

DRAWN BY [illegible] DATE OCT. 23, 1968

CHECKED BY T.M. CHURA DATE OCT. 23, 1968

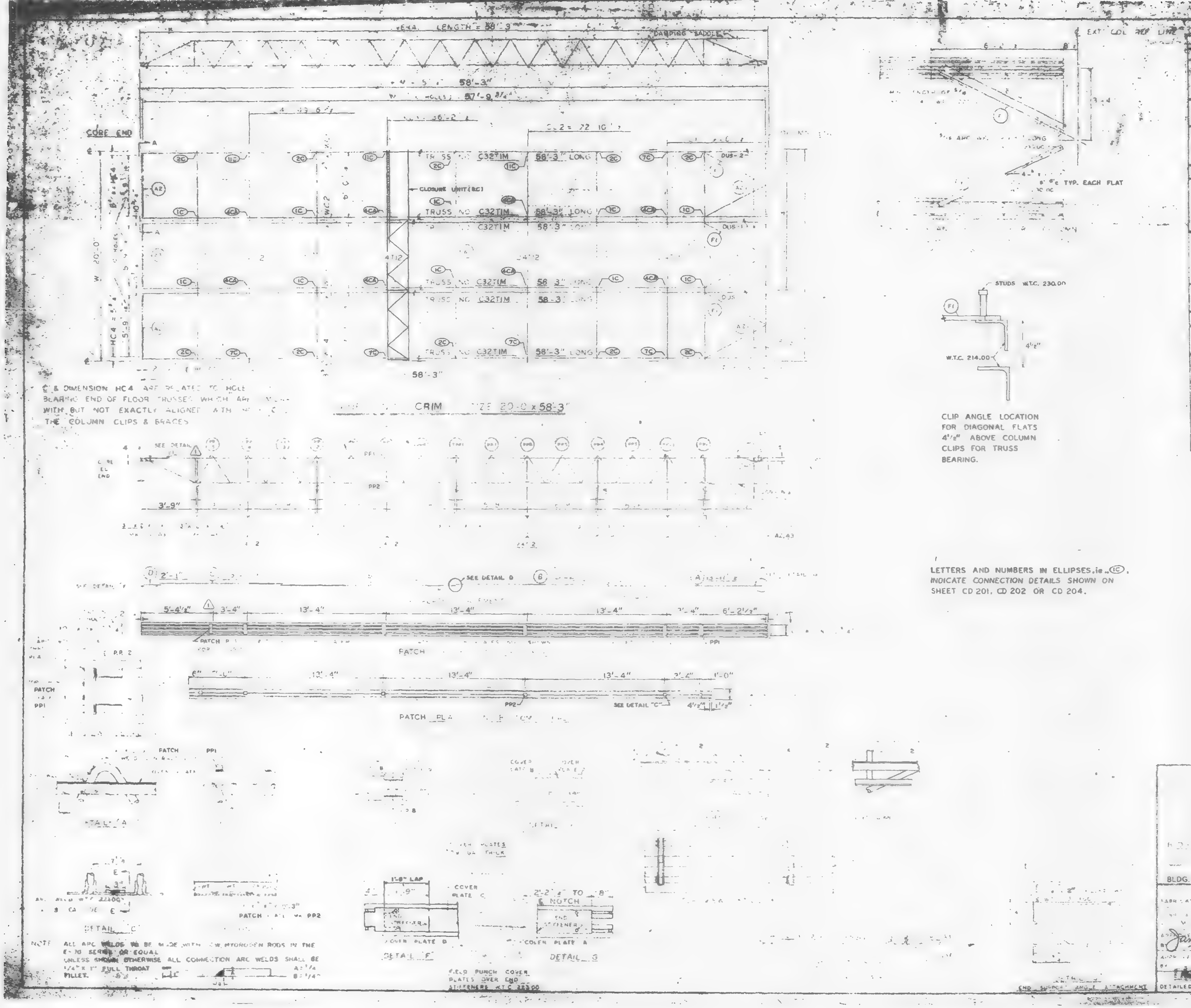
IN CHARGE OF PROD. ENG.

FABRICATION CONT. NO. 221

SHEET NO. FP-CRIK

DETAILED BY

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E 70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT FILLET.



REQUIRED MATERIAL PER PANEL				REF'S DRWGS
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIM	6	C32TIM - 58'-3"	ST201M
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT213
	T12	3	24T12 - 19'-11"	BT212
3"x2"x1/4" ANGLE	A1	9	3"x2"x1/4" x 19'-11"	ST 403
	A2	4	3"x2"x1/4" x 9'-11 5/8"	ST [illegible]
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 402
DIAGONAL FLATS	F1	6	[illegible] x 3/8" x 6'-6"	ST [illegible]
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 1/8" x 0'-3"	ST 400
[illegible]ER PLATES	A	3	[illegible] x 3'-11 1/2	ST 303
	B	6	9" x .135 x 5'-2	ST 303
	C	3	9" x 0.135" x 13'-2 1/2	ST 303
	D	3	9 x 0.135" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#5 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS 2		[illegible] 2 x 3 1/2 x 3/8" x 3'-6 7/8	ST298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1 1/2" x 1 1/4" x .230 x 6'-8 1/2"	BT212 CD-04
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

NO	DATE	REVISION	
1	6-9-69	AS NOTED	G.D.C.

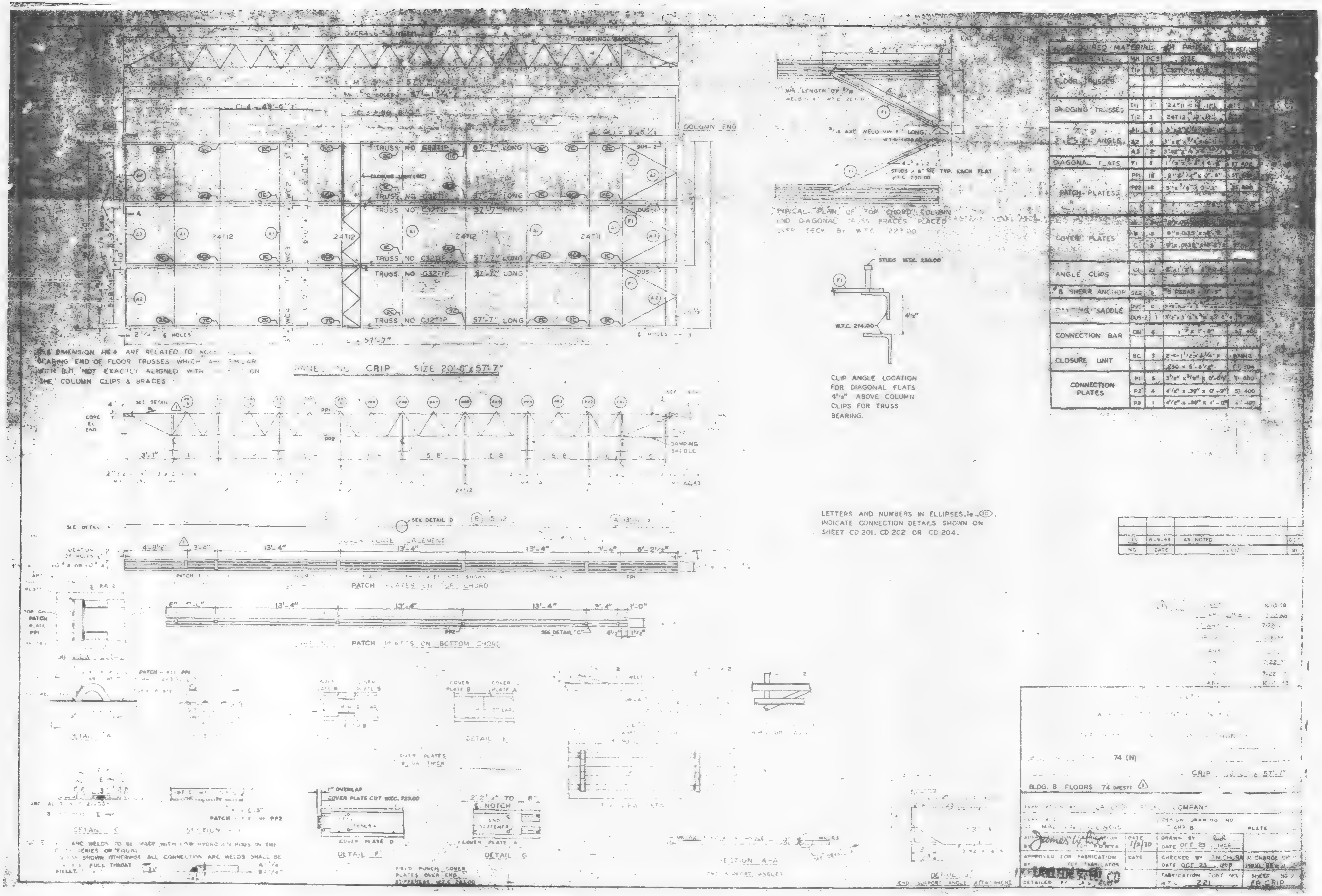
[illegible]	10-15-68
[illegible] 639	7-22-68
[illegible] 41	7-22-68
[illegible]	1-6-69
[illegible]	1-3-69
[illegible]	7-22-68
[illegible]	7-22-68
AB4 42	10-15-64

WORLD TRADE CENTER [illegible]
FOR
[illegible] AUTHORITY

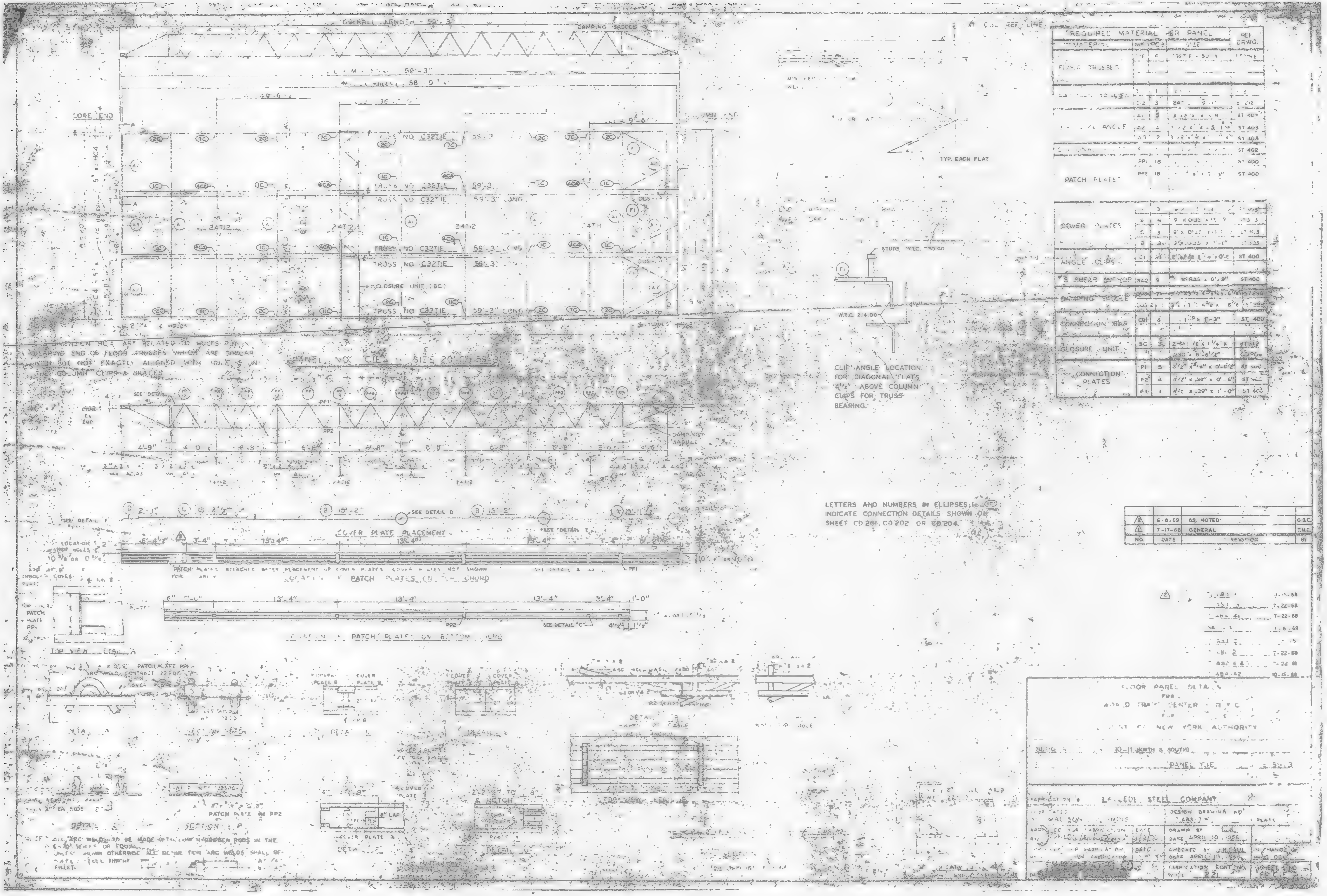
[illegible] 72-73 (N)
PANEL CRIM [illegible] x 58'-3"
BLDG. B FLOORS 72-73 (WEST) 1

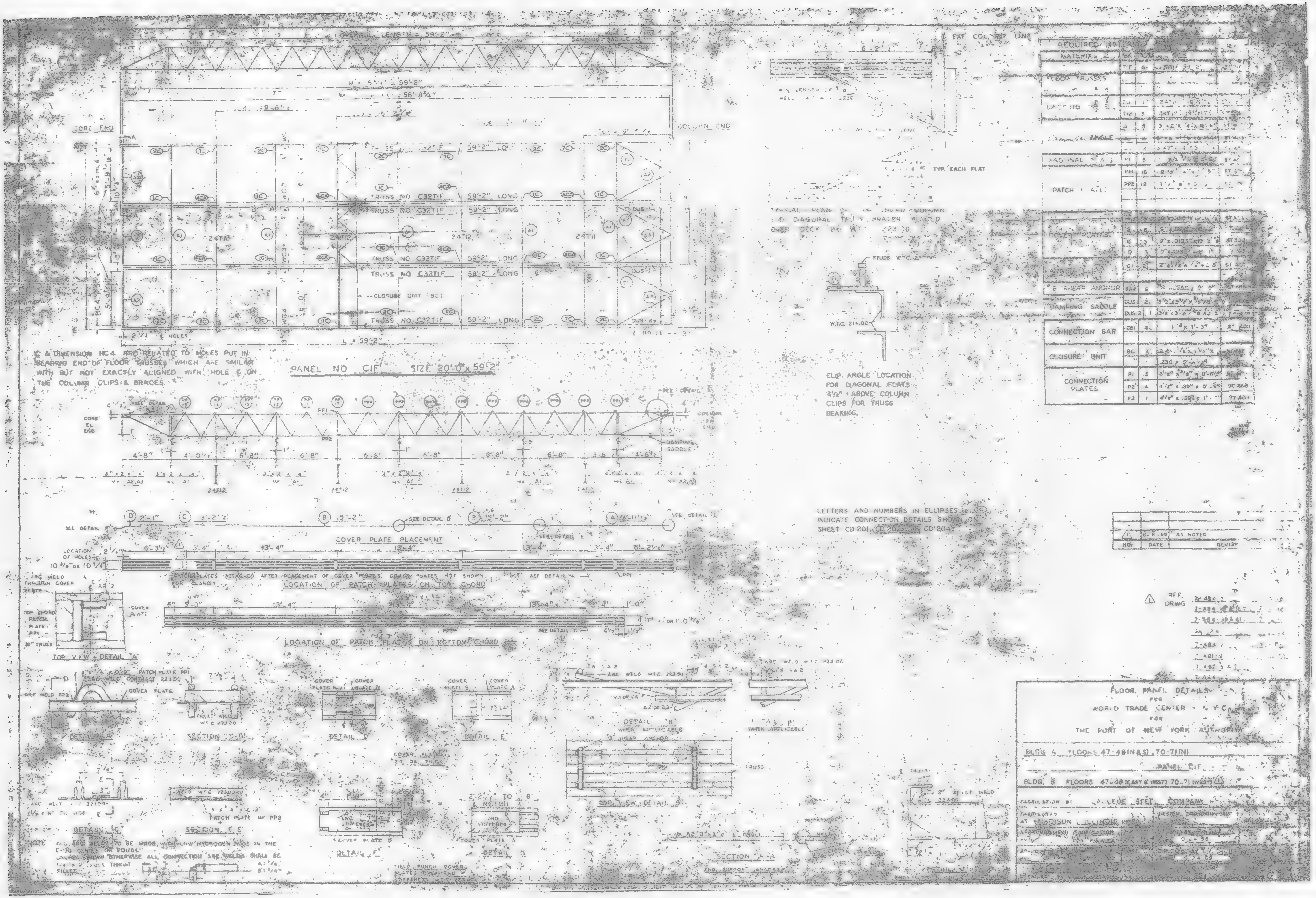
FABRICATION BY: LACLEDE STEEL COMPANY

APPROVED FOR FABRICATION BY James White	DATE 1/2/70	DESIGN DRAWING NO 7483-B / DRAWN BY [illegible] DATE OCT 23, 1968	PLATE [illegible]
APPROVED FOR FABRICATION BY [illegible]	DATE	CHECKED BY T.M. CHURA DATE OCT 23, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. [illegible]

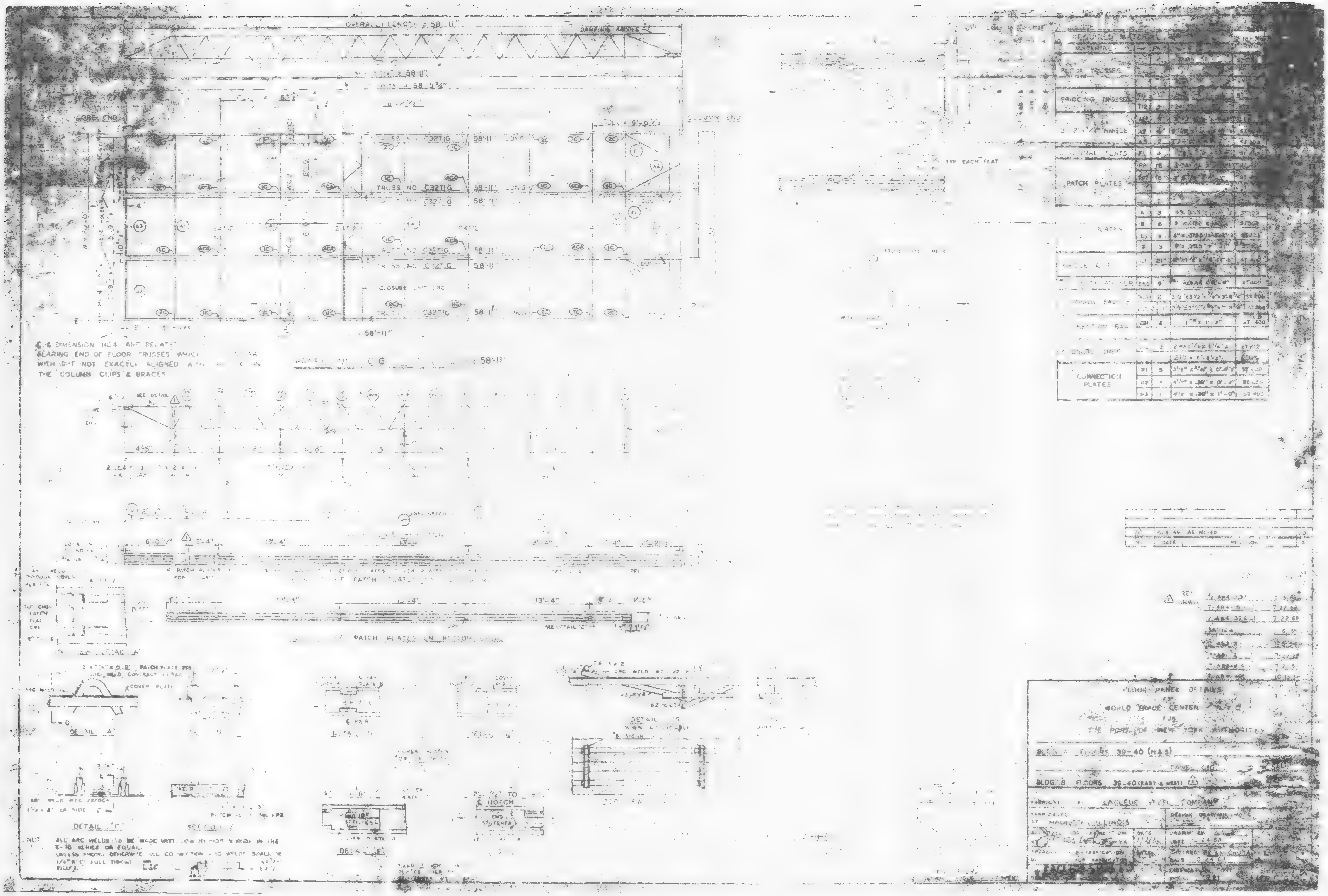


COLUMN END
TRUSS NO C32TIP 57'-7" LONG
24T12
24T11
DUS-2
DUS-1
L = 57'-7"
REQUIRED MATERIAL FOR PANEL
FLOOR TRUSSES
BRIDGING TRUSSES
DIAGONAL FLATS
PATCH PLATES
COVER PLATES
ANGLE CLIPS
SHEAR ANCHOR
DAMPING SADDLE
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
PANEL CRIP SIZE 20'-0" x 57'-7"
DIMENSION HE'S ARE RELATED TO HOLES ... BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH ... ON THE COLUMN CLIPS & BRACES
LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
6-9-59 AS NOTED
NO DATE
PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
1" OVERLAP
COVER PLATE CUT W.T.C. 223.00
COVER PLATE D
DETAIL F
DETAIL G
DETAIL E
DETAIL A
SECTION A-A
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
END SUPPORT ANGLE ATTACHMENT
74 (N)
CRIP 57'-7"
BLDG. B FLOORS 74 (WEST)
COMPANY
DESIGN DRAWING NO 483 B
PLATE
DATE 1/2/70
DRAWN BY
DATE OCT 23 1966
APPROVED FOR FABRICATION
CHECKED BY T.M. CHURA
DATE OCT 23 1969
IN CHARGE OF
PROG. REV.
FABRICATION CONT NO. W.T.C. 221
SHEET NO. FP CRIP
DETAILED BY

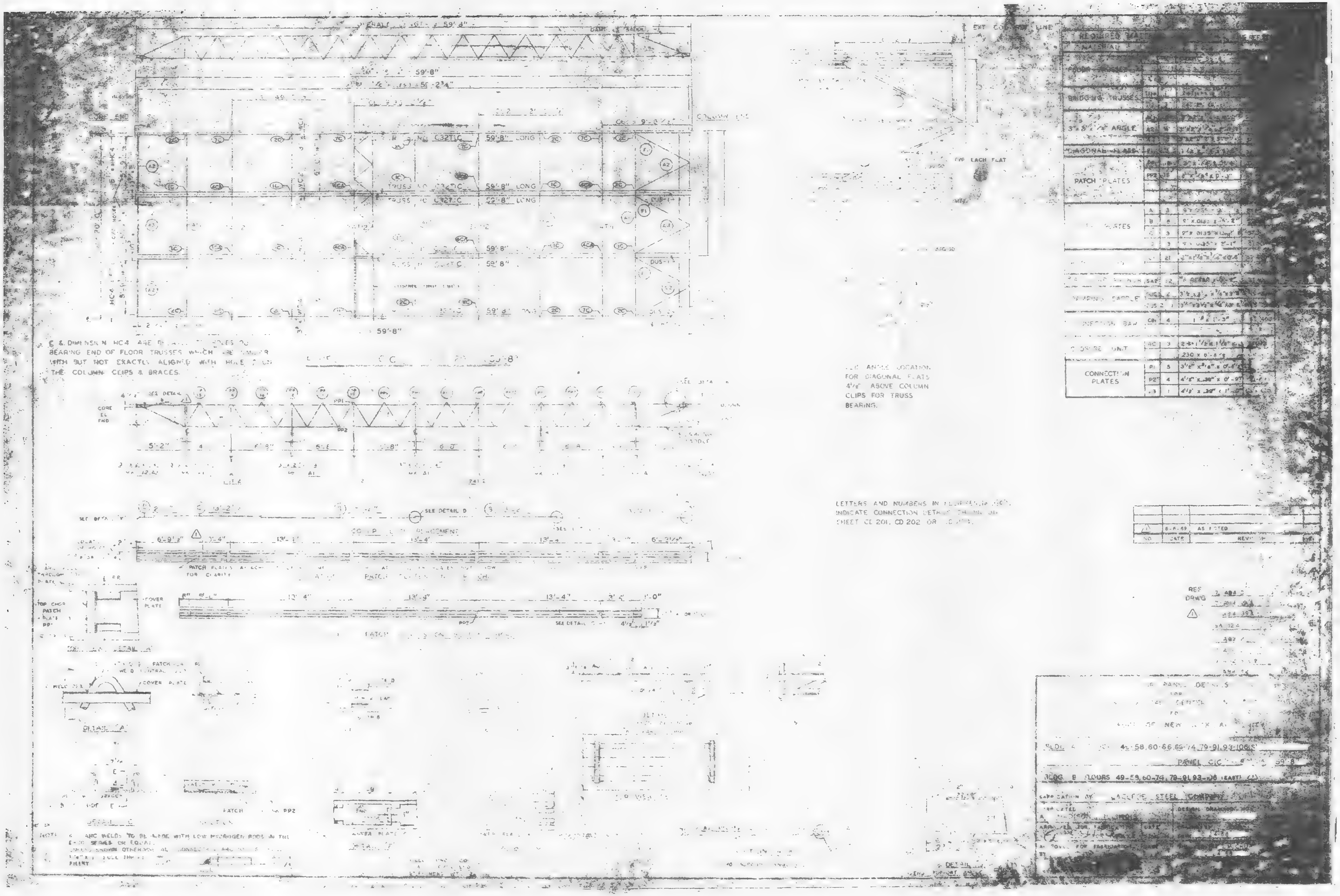

OVERALL LENGTH 59'-3"
DAMPING SADDLE
CORE END
TRUSS NO. C32TIE 59'-3" LONG
CLOSURE UNIT (BC)
PANEL NO. C1E
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
TYP. EACH FLAT
STUDS
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
REQUIRED MATERIAL PER PANEL
FLOOR TRUSSES
PATCH PLATES
COVER PLATES
ANGLE CLIPS
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
DAMPING SADDLE
6-6-69 AS NOTED
7-17-68 GENERAL
NO. DATE REVISION BY
FLOOR PANEL DETAILS FOR WORLD TRADE CENTER N.Y.C.
NEW YORK AUTHORITY
10-11 (NORTH & SOUTH)
PANEL TIE
STEEL COMPANY
DESIGN DRAWING NO.
DRAWN BY
DATE APRIL 10, 1968
CHECKED BY J.R. PAUL
DATE APRIL 10, 1968
IN CHARGE OF PROD. DEPT.
FABRICATION CONT. NO.
SHEET NO.



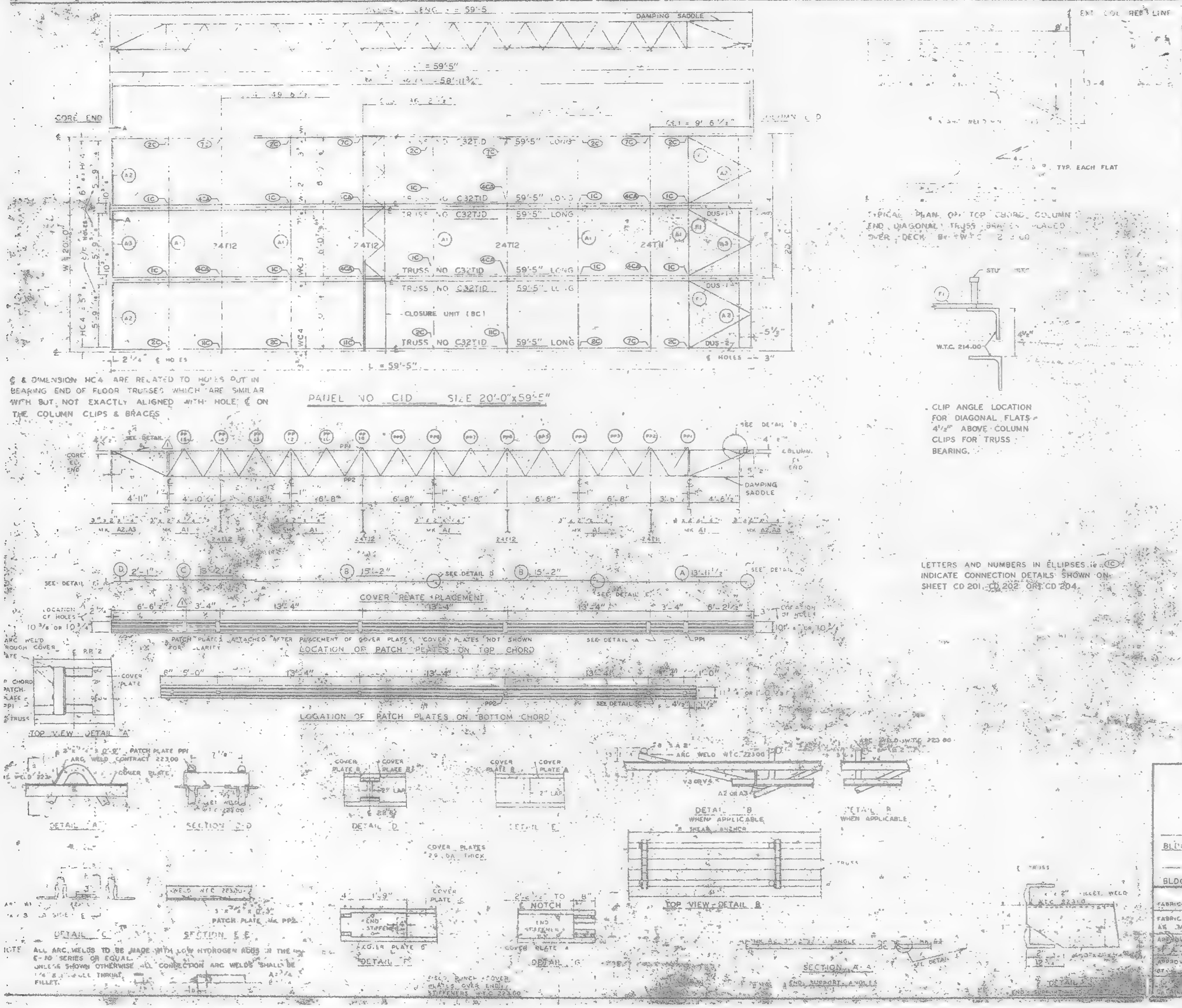
OVERALL LENGTH = 59'-2"
CORE END
COLUMN END
TRUSS NO C32T1F 59'-2" LONG
CLOSURE UNIT (BC)
L = 59'-2"
PANEL NO C1F SIZE 20'-0" x 59'-2"
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL A
SECTION D-D
DETAIL D
DETAIL E
DETAIL B
TOP VIEW DETAIL B
SECTION E-E
DETAIL C
DETAIL F
DETAIL G
SECTION A-A
TYP. EACH FLAT
STUDS
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES I.E. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 & CD 204.
REQUIRED MATERIAL
FLOOR TRUSSES
BRIDGING TRUSS
DIAGONAL FLATS
PATCH PLATE
COVER PLATES
ANGLE CLIPS
SHEAR ANCHOR
DAMPING SADDLE
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
NO. DATE REVISION
AS NOTED
REF. DRWG
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST)
PANEL C1F
FABRICATED AT MADISON, ILLINOIS



OVERALL LENGTH = 58'-11"
DAMPING SADDLE
CORE END
TRUSS NO. C32T1G
58'-11" LONG
COLUMN END
TYP. EACH FLAT
REQUIRED MATERIAL
FLOOR TRUSSES
BRIDGING TRUSSES
PATCH PLATES
CONNECTION PLATES
CLOSURE UNIT
DIMENSION HC4 ARE RELATED TO BEARING END OF FLOOR TRUSSES WHICH ... WITH BUT NOT EXACTLY ALIGNED WITH ... THE COLUMN CLIPS & BRACES
PATCH PLATES ON BOTTOM
DETAIL "A"
DETAIL "C"
SECTION
ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY
FLOORS 39-40 (N&S)
PANEL C1G
58'-11"
BLDG. 8 FLOORS 39-40 (EAST & WEST)
LACLEDE STEEL COMPANY
MADISON, ILLINOIS



59'-8"
PATCH PLATES
BRIDGING TRUSSES
CONNECTION PLATES
DIAGONAL FLATS
SEE DETAIL D
COVER PLATE
DETAIL A
DETAIL C
TYP. EACH FLAT
BEARING.
LETTERS AND NUMBERS IN
INDICATE CONNECTION
SHEET CD 201, CD 202 OR
AS NOTED
REF DRW'G
BLDG B FLOORS 49-58, 60-74, 78-91, 93-106 (EAST)



REQUIRED MATERIAL FOR PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TID	8	C32TID 59'-5"	ET20-D
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
3"x2"x¼" ANGLE	A1	8	3"x2"x¼"x 19'-1"	ST 403
	A2	4	3"x2"x¼"x 5'-[illegible]	ST 403
	A3	2	3"x2"x¼"x 5'-[illegible]	ST 403
DIAGONAL FLATS	F1	6	1⅛"x [illegible] x 8'-8"	ST 402
PATCH PLATES	PP1	18	2"x¼"x 0'-2"	ST 400
	PP2	48	3"x⅜"x 0'-3"	ST 400
COVER PLATES	A	3	9 x 0.135 x 13'-[illegible]½	ST 303
	B	6	9"x 0.135 x 15'-2	ST 303
	C	3	9 x 0.135 x 1'-2½	ST 303
	D	3	9"x 0.135' x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2"x1½"x¼"x 0'-6	ST 400
#3 SHEAR ANCHOR	SA2	9	#3 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜ x 3'-6⅞"	ST 298
	DUS-2	1	3½"x3½"x⅜ x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-3 x 1½"x 1¼ x .230 x 6-6½"	BT212 CD204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-6-69	AS NOTED	GO

REF DRWG

7-AB4-3,3.1	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-39 & 41	7-22-68
SA-1241	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 81-82 (N)

PANEL CID 20' x 59'-5"

BLDG. B FLOORS 81-82 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

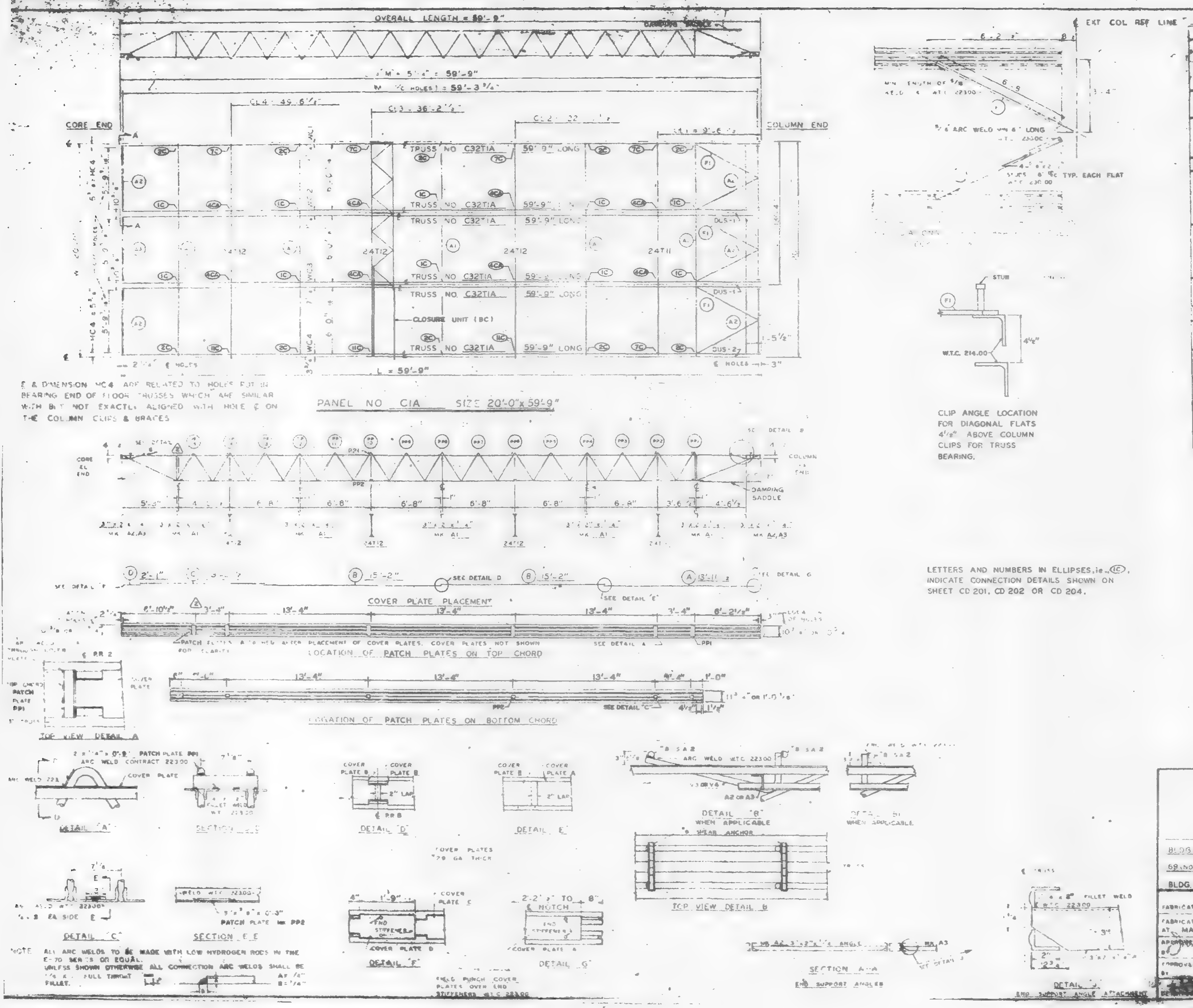
DESIGN DRAWING NO. 7-AB3-7

APPROVED FOR FABRICATION

DATE 10-24-68

CHECKED BY T.M. CHUBA

DATE 10-24-68



LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	[illegible]	ST201A
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	ST211
	T12	3	24T12 - 19'-11"	ST212
3"x2"x¼" ANGLE	A1	8	3"x2"x¼"x [illegible]	ST 403
	A2	4	3"x2"x¼"x 5'-11¾"	ST 403
	A3	2	3"x2"x¼"x 5'-10¾"	ST 403
DIAGONAL FLATS	F1	6	1½"x⅝"x 6'-8"	ST 402
PATCH PLATES	PP1	18	2"x¼"x 0'-9"	ST 400
	PP2	18	2"x⅜"x 0'-3"	ST 400
COVER PLATES	A	3	9"x.0135"x 13'-11⅞"	ST303
	B	6	9"x.0135"x 15'-2"	ST303
	C	3	9"x.0135"x 13'-2⅞"	ST303
	D	3	9"x.0135"x 2'-1"	ST303
ANGLE CLIPS	C1	24	2"x1½"x¼"x 0'-6"	ST 400
#8 [illegible] ANCHOR	SA2	12	#8 REBAR x 0'-8"	ST-400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x 3'-6⅞"	ST298
	DUS-2	1	3½"x3½"x⅜"x 3'-6⅞"	ST298
CONNECTION BAR	CB1	4	1"⌀ x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 L 1½ x [illegible] x 220 x 6'-8½"	ST212
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	1	4½" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-5-68	AS NOTED	G.D.C.
1	7-17-68	GENERAL	T.M.C.

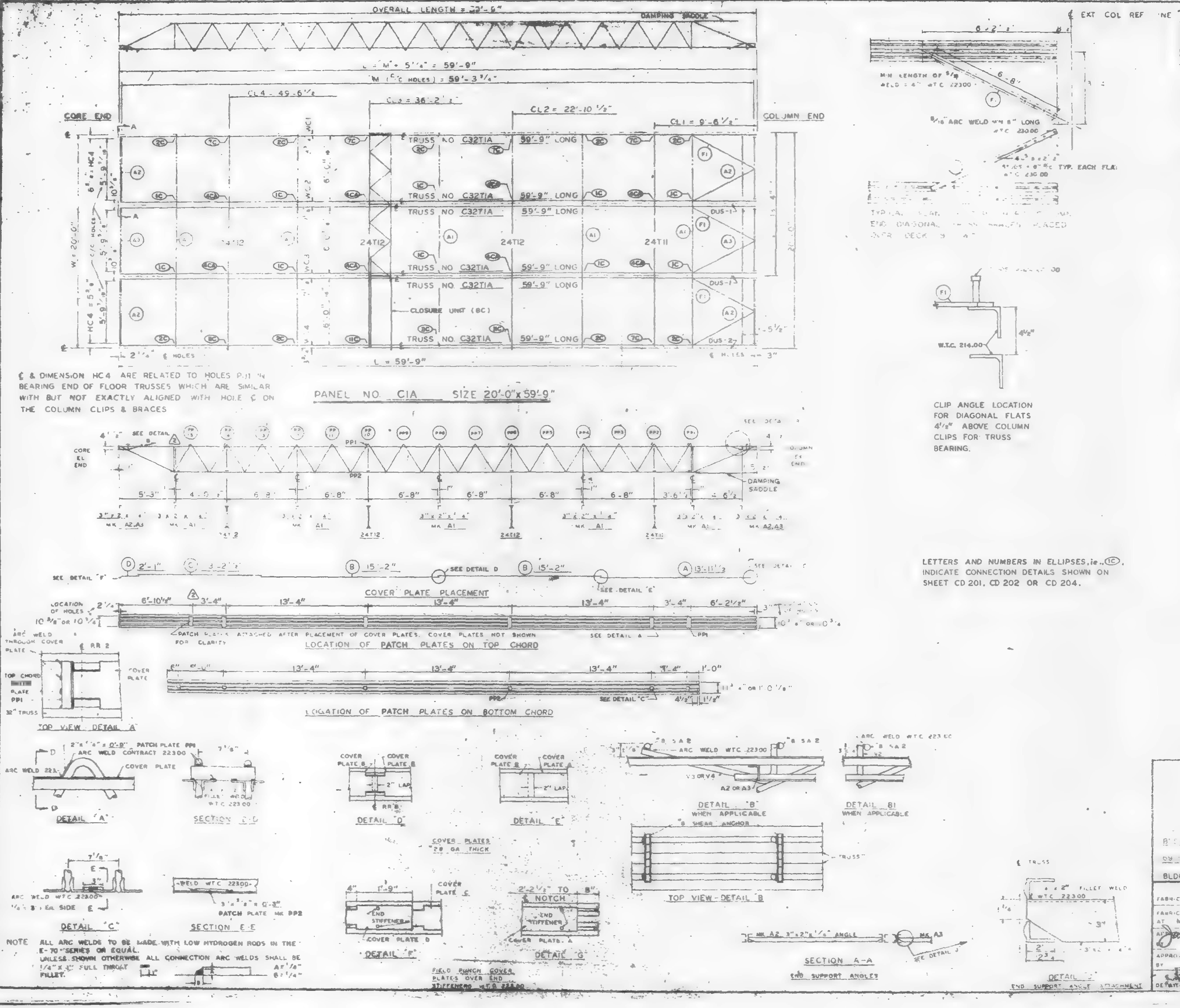
REF DRWG

7-AB4-3	10-15-68
7-AB4-15 & 18	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 12-24, 26-38 (NORTH & SOUTH) & 49-58, 60-68, 69 (NORTH) PANEL C1A - 20'-0" x 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-68 [illegible]

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-[illegible]
APPROVED FOR FABRICATION BY [illegible] FOR PONYA — DATE [illegible]
DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY [illegible] — DATE
CHECKED BY [illegible] DATE APRIL 10, 1968
FABRICATION CONT. NO. [illegible]



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES

LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 "SERIES" OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.

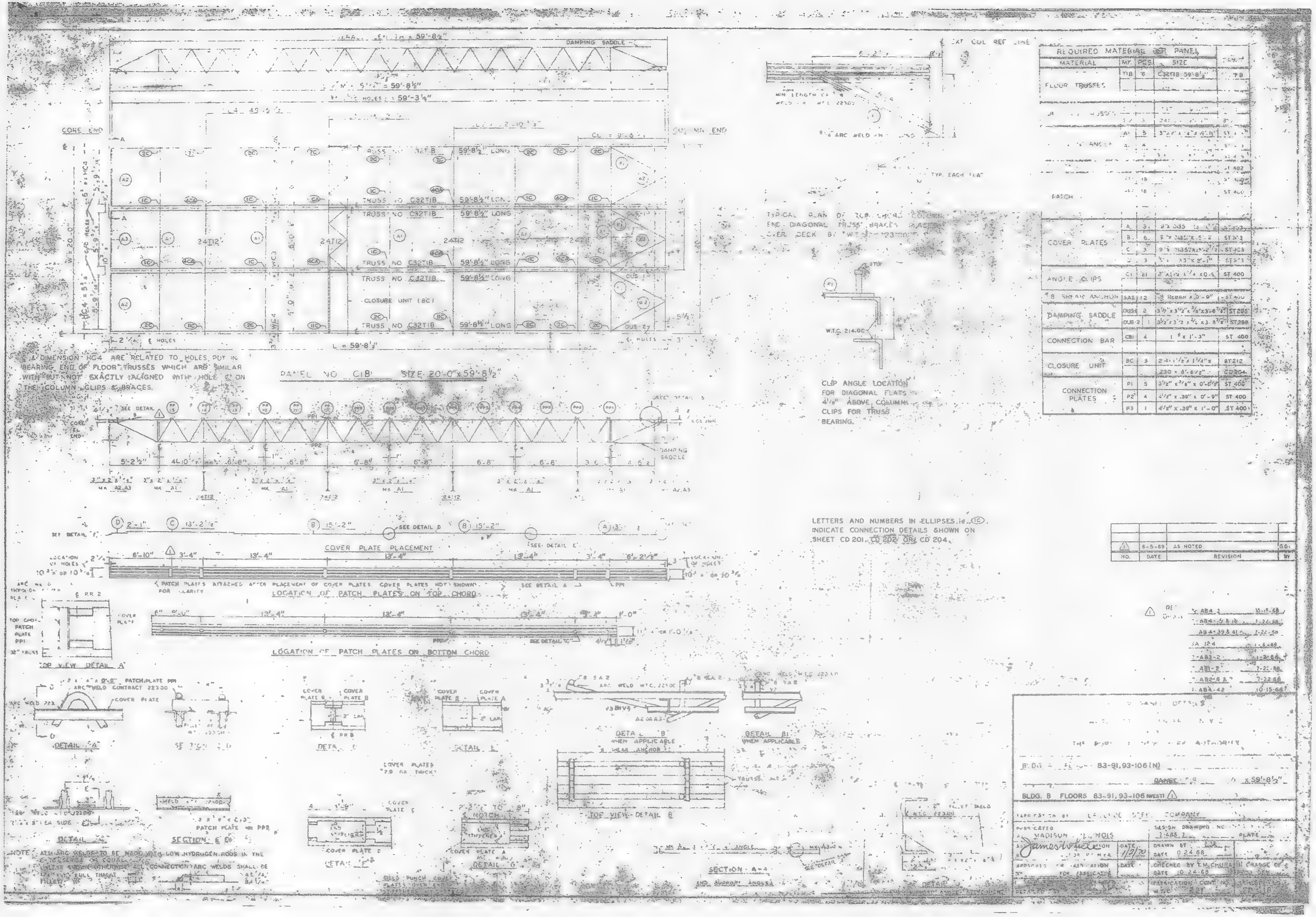
REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	C32T1A x 59'-9"	ST 201A
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT 211
	T12	3	24T12 - 19'-11"	BT 212
3"x2"x1/4" ANGLE	A1	8	3"x2"x1/4"x 19'-11"	ST 403
	A2	4	3"x2"x1/4"x 5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	[illegible] x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
[illegible]	[illegible]	3	[illegible]	[illegible]
	[illegible]	6	[illegible] x 5'-2"	[illegible]
	[illegible]	3	[illegible] x 3'-2"	[illegible]
		3	[illegible] x 2'-1"	[illegible]
ANGLE	[illegible]	21	[illegible] x 0'-5"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	[illegible] x 3'-8 7/8"	ST 298
	DUS 2	1	[illegible] x 3'-8 7/8"	ST 298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 1/2 x 1 1/2" x 1 1/4" x	BT 212
			.230 x 6'-8 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-5-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	T.M.C.

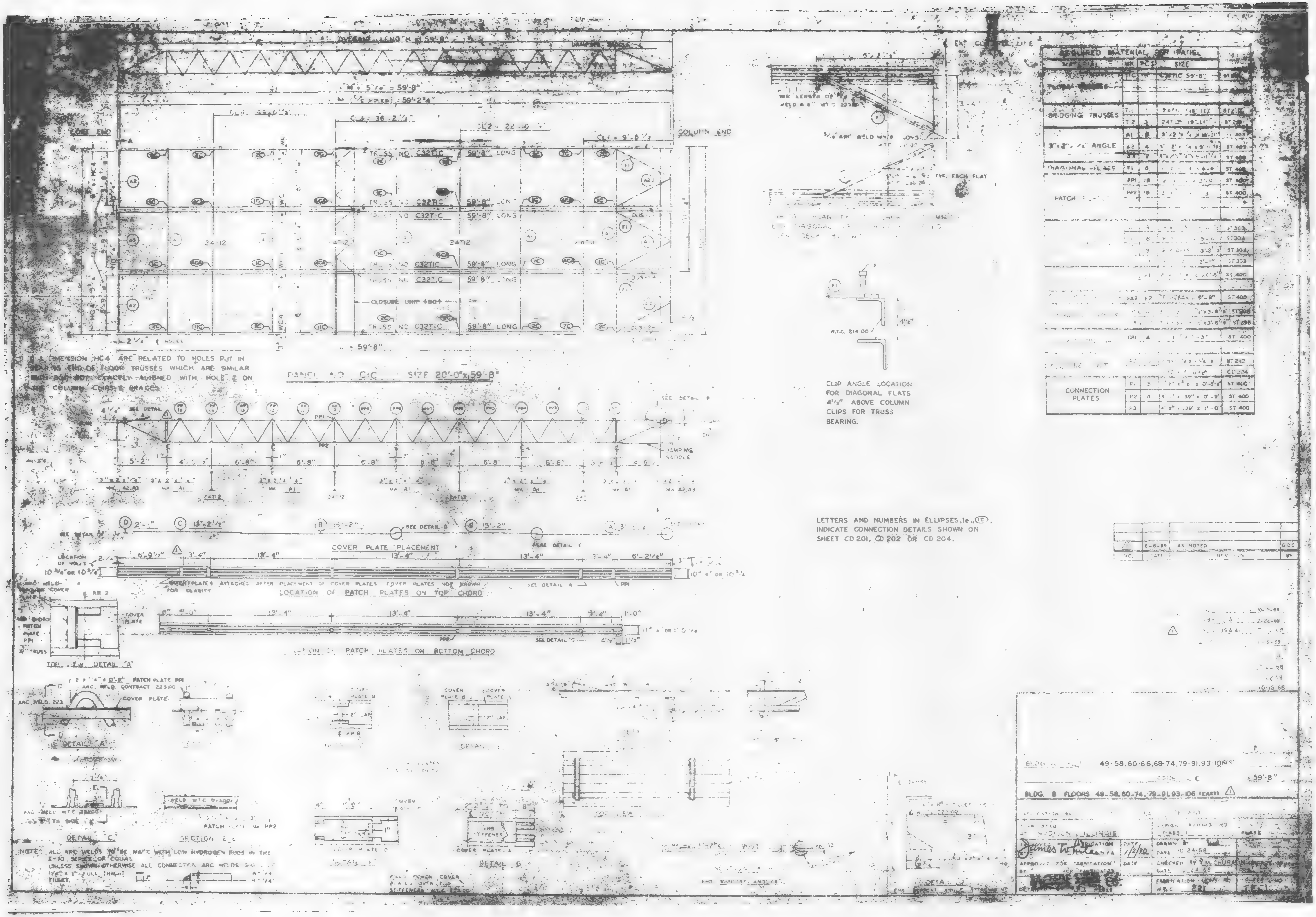
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS [illegible] 24, 26-38 (NORTH & SOUTH) 42-58, 60-66, 68, 69 [illegible] PANEL C1A [illegible] x 59'-9"
BLDG B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-69 (WEST) (2)

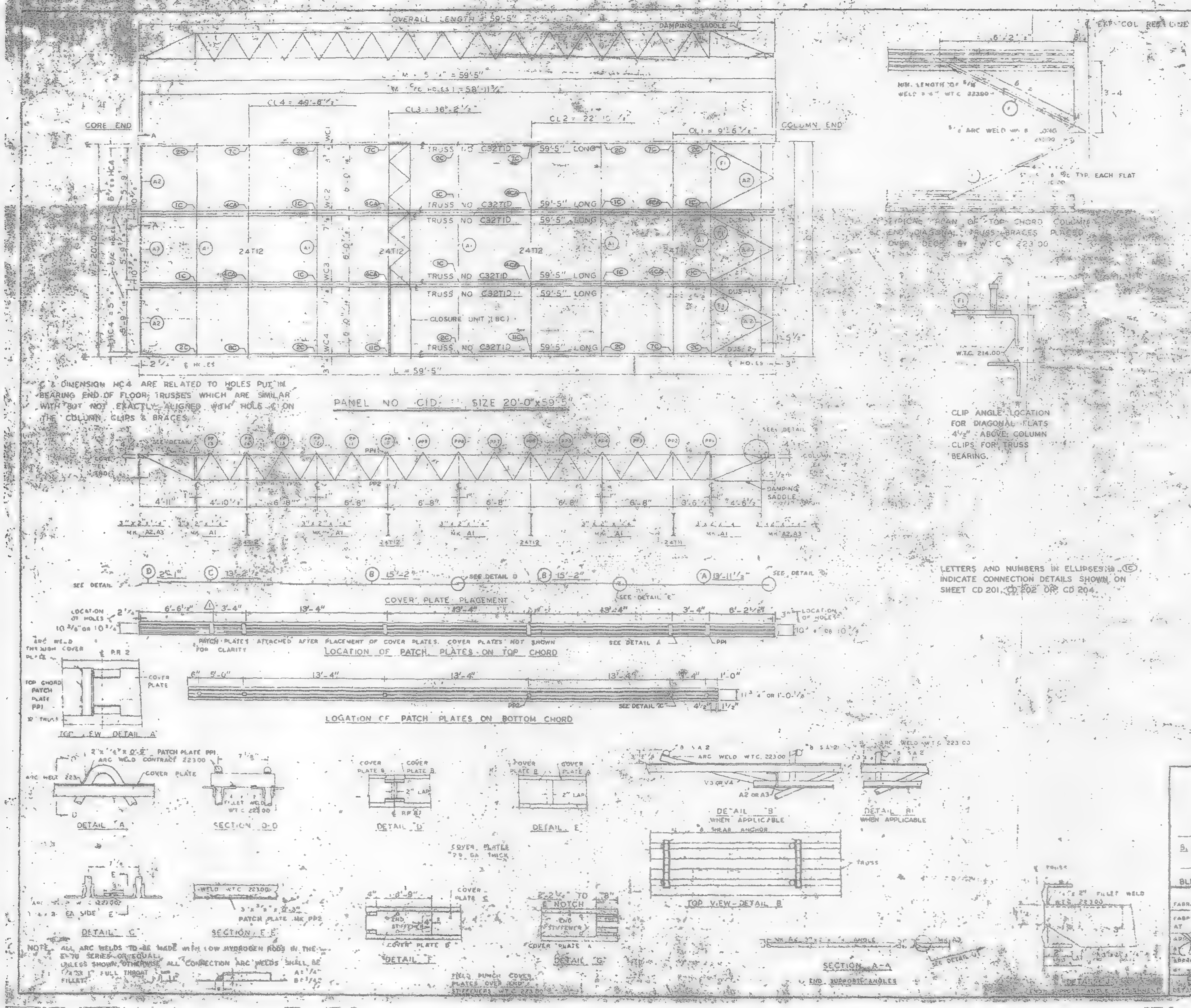
FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB3-7 PLATE
APPROVED FOR FABRICATION BY James White FOR PONYA DATE 1/2/70	DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY J.R. PAUL DATE APRIL 10, 1968 — IN CHARGE OF PROD. DEV.
	FABRICATION CONT NO. WTC 221 — SHEET NO FP C1A



DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO C32T1B 59'-8½" LONG
CLOSURE UNIT (8C)
L = 59'-8½"
DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES.
PANEL NO C1B SIZE 20'-0"x59'-8½"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL A
DETAIL B
DETAIL B1 WHEN APPLICABLE
TOP VIEW DETAIL B
SECTION A-A
SECTION E-E
REQUIRED MATERIAL PER PANEL
FLOOR TRUSSES
COVER PLATES
ANGLE CLIPS
DAMPING SADDLE
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
1 6-5-69 AS NOTED
NO. DATE REVISION BY
BLDG. A FLOORS 83-91,93-106 (N)
PANEL x 59'-8½"
BLDG. B FLOORS 83-91,93-106 (WEST) 1
FABRICATED MADISON, ILLINOIS
DRAWN BY DATE 0 24 68
CHECKED BY T.M. CHURA DATE 10-24-68
DATE 1/2/70



OVERALL LENGTH 59'-8"
CORE END
COLUMN END
TRUSS NO. C32TIC 59'-8" LONG
TRUSS NO. C32RC 59'-8" LONG
CLOSURE UNIT
DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON COLUMN CLIPS & BRACES.
PANEL NO. C:C SIZE 20'-0" x 59'-8"
DAMPING SADDLE
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
DETAIL "C"
DETAIL "G"
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT FILLET.
END SUPPORT ANGLES
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
W.T.C. 214.00
LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
REQUIRED MATERIAL FOR PANEL
MATERIAL
MK
PC
SIZE
BRIDGING TRUSSES
3"x3"x1/4" ANGLE
DIAGONAL FLATS
PATCH PLATES
CONNECTION PLATES
AS NOTED
BLDG. B FLOORS 49-58, 60-74, 79-91, 93-106 (EAST)
49-58, 60-66, 68-74, 79-91, 93-106
DRAWN BY
CHECKED BY
APPROVED FOR FABRICATION



REQUIRED MATERIAL PER PANEL				REF. DWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1D	6	C32T1D 59'-5"	ST201D
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
[illegible] ANGLE	A1	5	3"x2½"x¼"x9'-11"	ST 403
	A2	4	[illegible]	ST 403
	A3	2	[illegible]	ST 403
DIAGONAL FLATS	F	[illegible]	[illegible] 6 9	ST 402
PATCH PLATES	PP1	18	[illegible] 2'-9"	ST 400
	PP2	48	[illegible] 0'-3"	ST 400
COVER PLATES	A	3	9"x 0.135" x 13'-[illegible]½"	ST303
	B'	6	9"x 0.135" x 15'-2"	ST303
	C	3	9"x 0.135" x 13'-2½"	ST303
	D	3	9"x 0.135" x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x1½"x¼"x0'-6"	ST 400
SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-2	1	3½"x3½"x⅜"x3'-6⅞"	ST298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-[illegible]1½"x1¼"x	BT212
			.230 x 6'-6½"	CD204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-6-69	AS NOTED	GD[illegible]

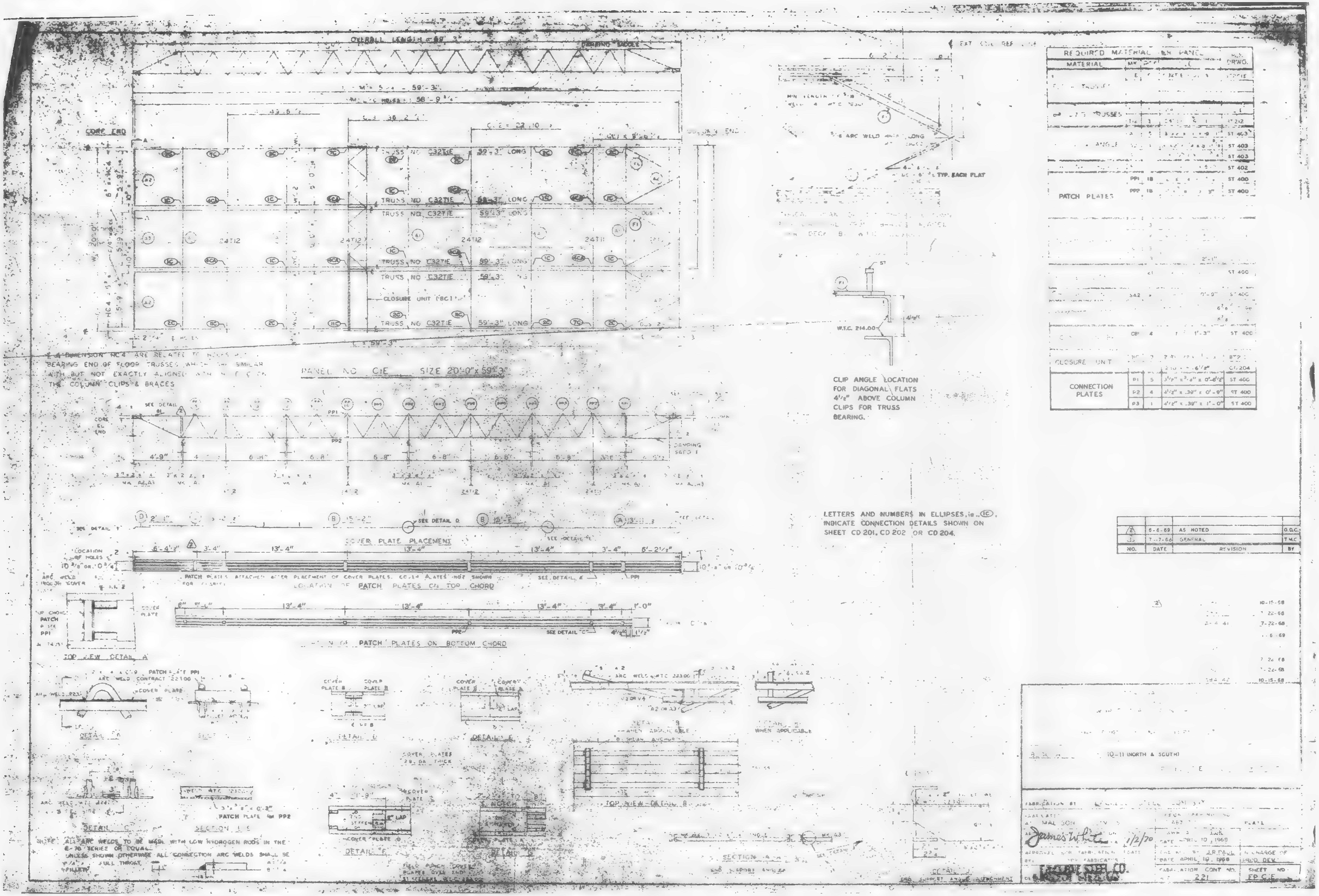
REF DRWG

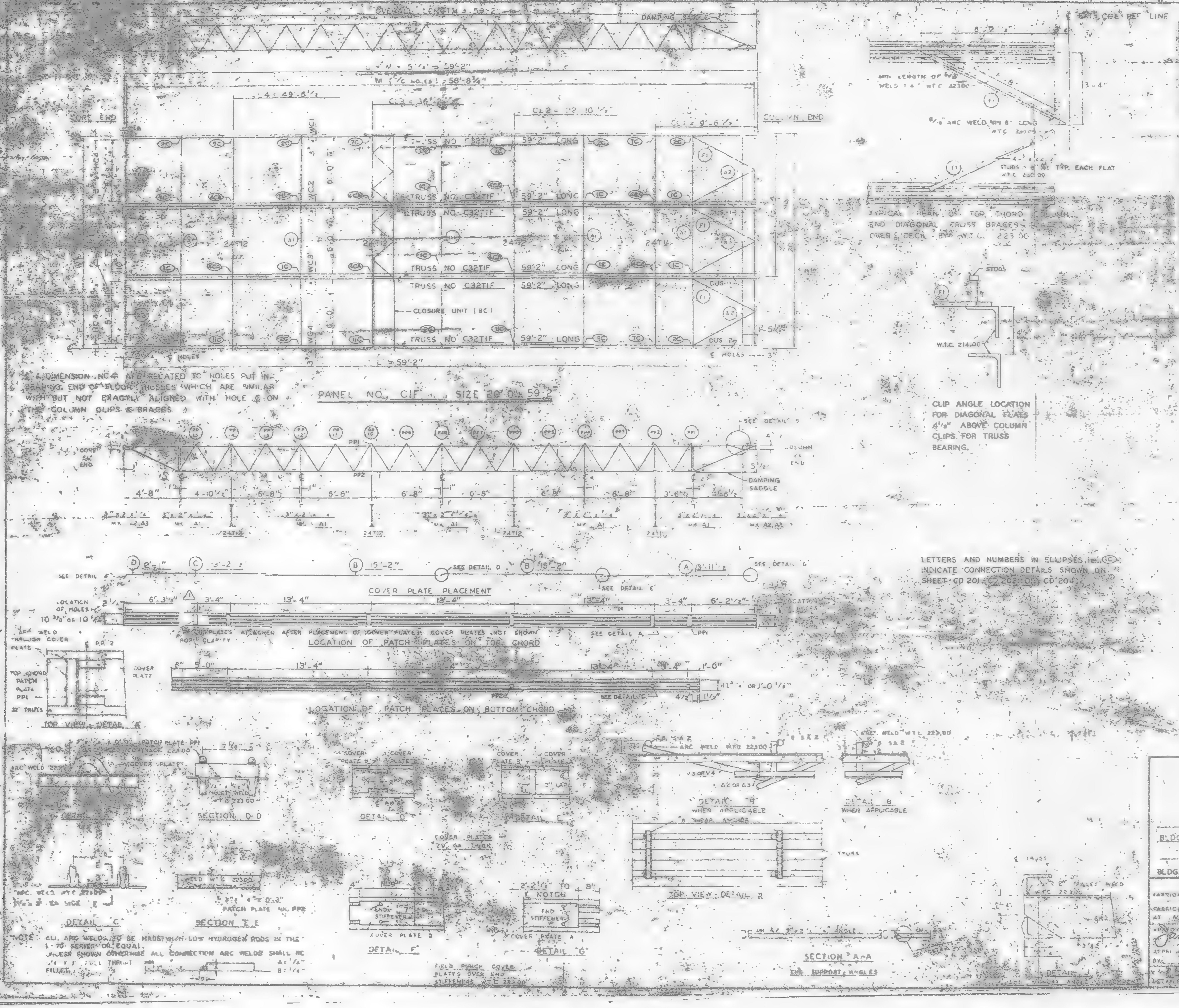
[illegible] AB4-3,3,1	10-15-68
[illegible] AB4-15 & 6	7-22-68
[illegible] AB4 39 & 41	7-22-68
SA 124	1-6-69
7 AB3 2	1-3-68
AB[illegible] 2	7-22-68
AB[illegible]	7-22-68
[illegible] AB4 42	10-15-68

[illegible] PANEL [illegible]
FOR
WORLD TRADE CENTER [illegible]
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 81-82 (N)
PANEL CID [illegible] x 59'-5"
BLDG B FLOORS 81-82 (WEST)

FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO [illegible]-AB3 [illegible]
APPROVED FOR FABRICATION BY James W[illegible] DATE 1/2/70
DRAWN BY [illegible] DATE 10-24-68
APPROVED FOR FABRICATION BY [illegible] DATE
CHECKED BY T.M. CHURA DATE 10-24-68
IN CHARGE OF PROD. DEV.
DETAILED BY [illegible] C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET [illegible]


OVERALL LENGTH = 59'-3"
PANEL NO. C1E SIZE 20'-0" x 59'-3"
TRUSS NO. C32T1E 59'-3" LONG
CLOSURE UNIT
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "C"
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
TOP VIEW DETAIL "B"
SECTION A-A
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT.
REQUIRED MATERIAL IN PANEL
MATERIAL
PATCH PLATES
CLOSURE UNIT
CONNECTION PLATES
10-11 (NORTH & SOUTH)
James White 1/2/70
DATE APRIL 10, 1968
LECLEDE STEEL CO.
SHEET NO. FP C1E



REQUIRED MATERIAL FOR PANEL				
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T-F	6	C32T1F 59'-2"	[illegible]
BRIDGING TRUSSES	T11	1	24T11 - [illegible]	ST 310
	T12	3	24T12 - 19'-1"	ST 218
[illegible]	A1	5	3" x 2" x 1/4" x 10'-11"	ST 403
	A2	4	[illegible]	ST 403
	A3	2	[illegible]	ST 403
DIAGONAL FLATS	F	6	[illegible]	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-3"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	3	[illegible] x .0135" x 13'-11 1/2"	ST 303
	B	6	[illegible] x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	3" x 1 1/2" x 1/4" x 0'-6"	ST 400
#6 SHEAR ANCHOR	SA2	9	[illegible] REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS	2	3 1/2" x 3 1/2" x 3/8" x [illegible]	[illegible]
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 [illegible]	[illegible]
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] x 1 1/2" x 1/4" x [illegible]	ST 212
			.250 x 5'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

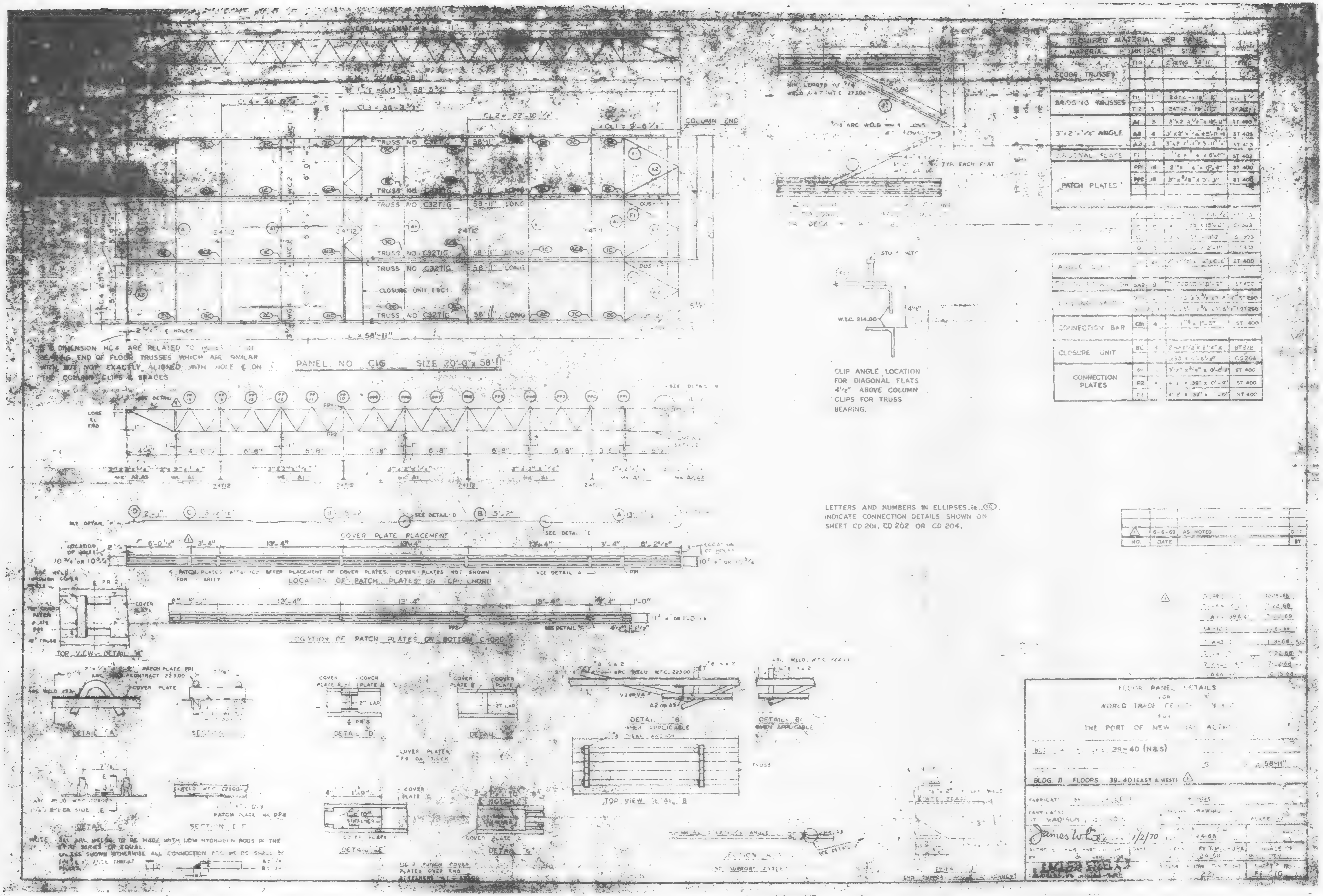
NO.	DATE	REVISION	BY
1	6-6-69	AS NOTED	GDC

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 18	7-22-68
7-AB4-39 & 41	7-22-68
SA-124	[illegible]
7-AB3-2	[illegible]
7-AB1-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

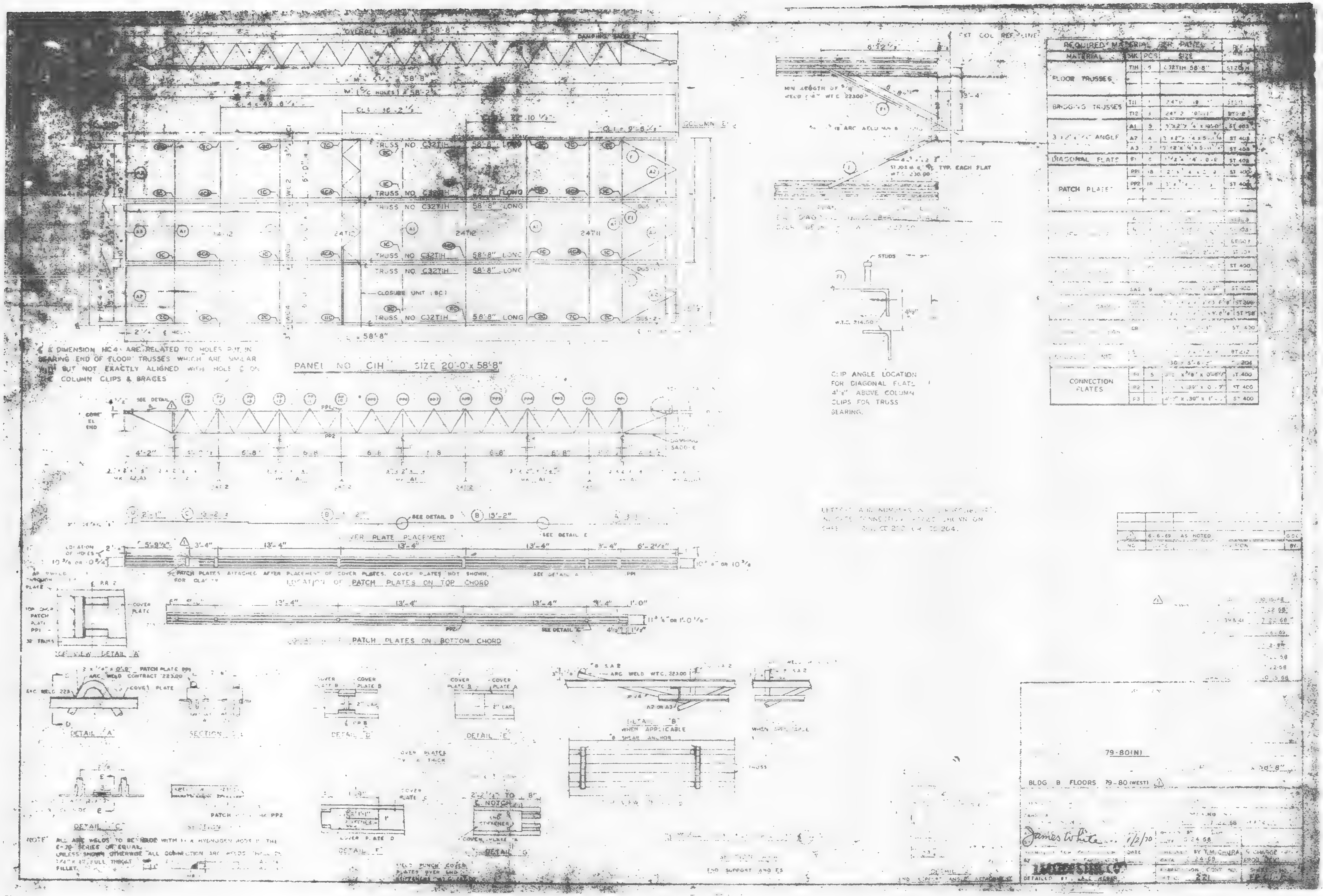
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

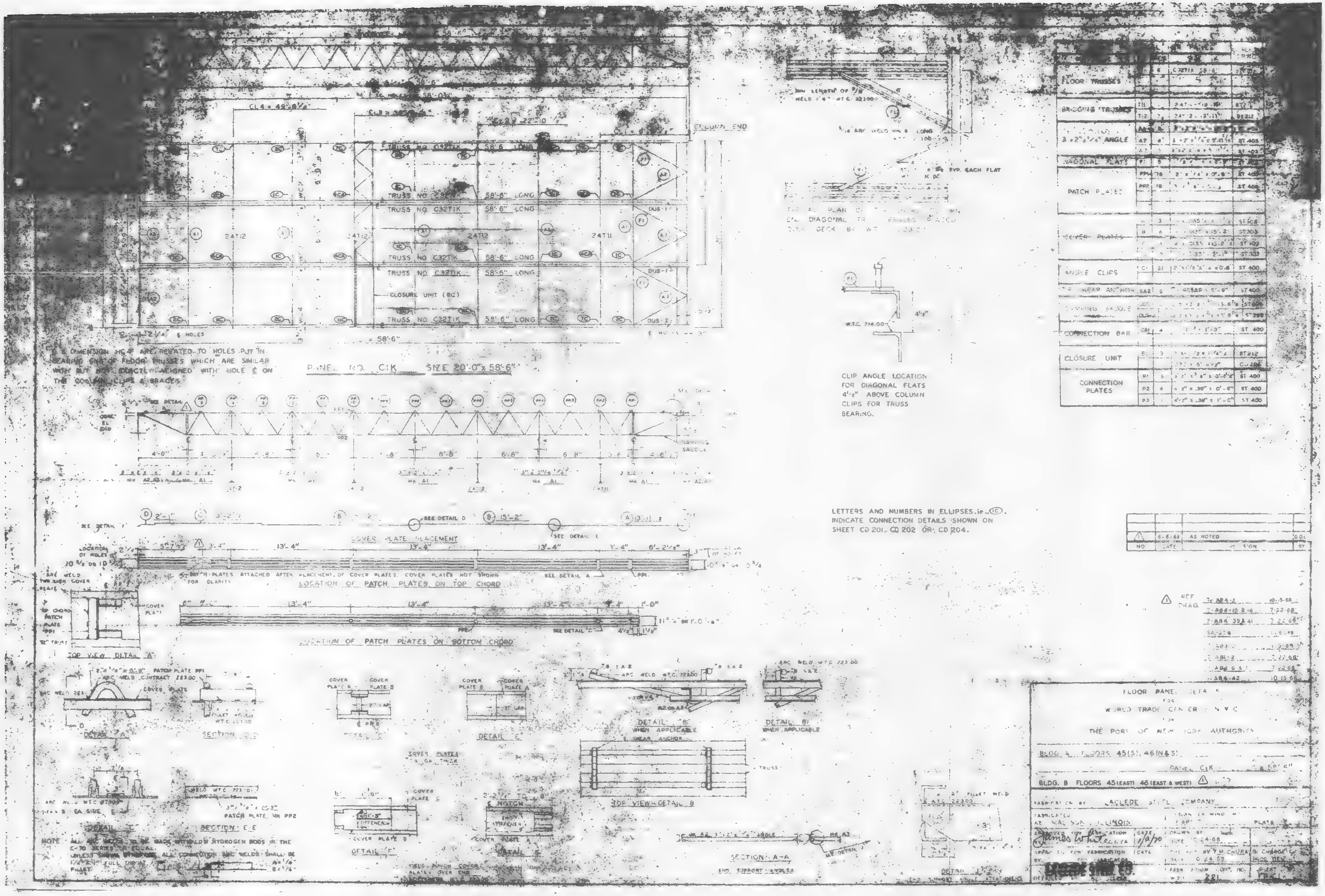
BLDG A FLOOR 47-48 (N&S) 70-71 (N)
PANEL C1F - 20'-0" x 59'-2"
BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) (1)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-7
APPROVED FOR FABRICATION James White P.N.Y.A. DATE 1/2/70
DRAWN BY [illegible] DATE 10-24-68
CHECKED BY T.M. CHURA DATE 10-24-68
FABRICATION CONT. NO. [illegible]
DETAILED BY [illegible]

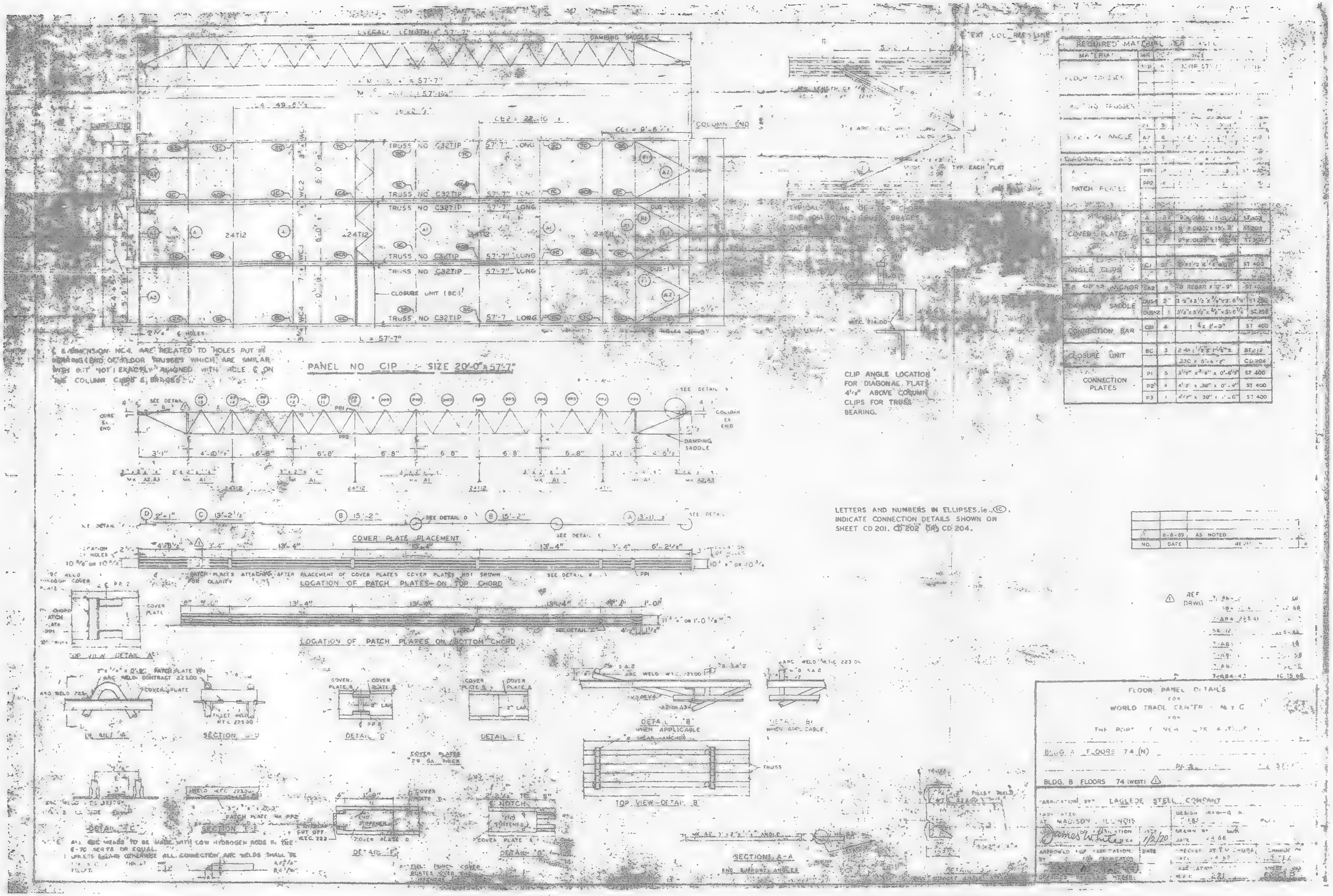


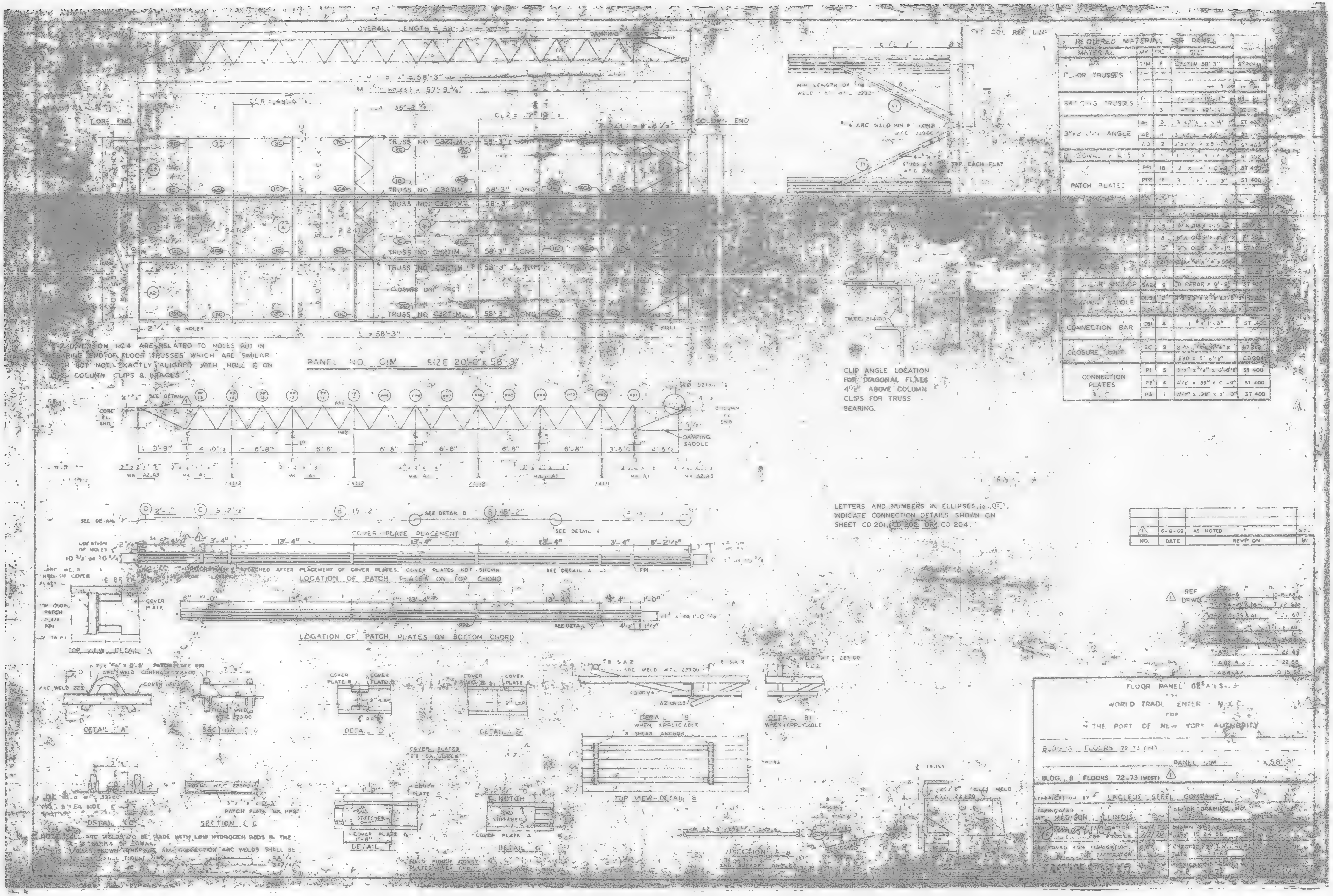
COLUMN END
TRUSS NO C32T1G 58'-11" LONG
CLOSURE UNIT (BC)
L = 58'-11"
PANEL NO C1G SIZE 20'-0" x 58'-11"
REQUIRED MATERIAL PER PANEL
MATERIAL
MK
PCS
SIZE
FLOOR TRUSSES
BRIDGING TRUSSES
3"x2"x1/4" ANGLE
PATCH PLATES
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
ST 400
CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4 1/2" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING.
W.T.C. 214.00
LETTERS AND NUMBERS IN ELLIPSES, ie. (1C)
INDICATE CONNECTION DETAILS SHOWN ON
SHEET CD 201, CD 202 OR CD 204.
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL
DETAIL A
DETAIL D
DETAIL B
WHEN APPLICABLE
DETAIL B1
WHEN APPLICABLE
TOP VIEW - DETAIL B
COVER PLATES
DETAIL C
SECTION E-E
PATCH PLATE MK PP2
FLOOR PANEL DETAILS
FOR
WORLD TRADE CE
THE PORT OF NEW
39-40 (N&S)
58'-11"
BLDG. B FLOORS 39-40 (EAST & WEST)
MADISON
James White 1/2/70
24-68
BY T. MACHURA
6-6-69
AS NOTED
NO.
DATE

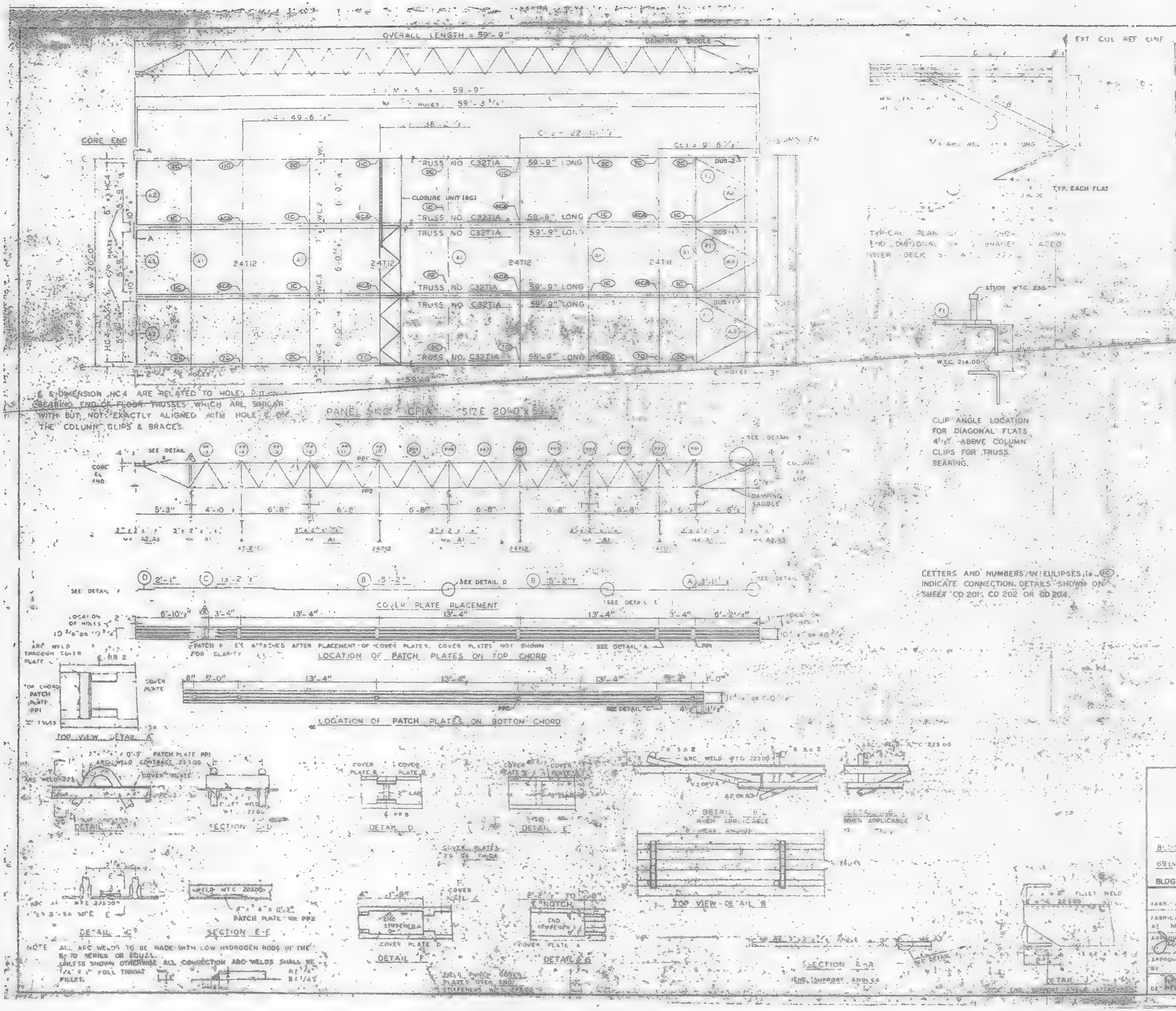

OVERALL LENGTH 58'-8"
DAMPING SADDLE
TRUSS NO C32TIH 58'-8" LONG
CLOSURE UNIT (BC)
PANEL NO C1H SIZE 20'-0" x 58'-8"
& DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON COLUMN CLIPS & BRACES
EXT COL REF LINE
REQUIRED MATERIAL FOR PANEL
MATERIAL
PCS
SIZE
FLOOR TRUSSES
C32TIH 58'-8"
BRIDGING TRUSSES
3 1/2" x 2 1/2" ANGLE
DIAGONAL PLATE
PATCH PLATES
CONNECTION PLATES
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
STUDS
COVER PLATE PLACEMENT
SEE DETAIL D
SEE DETAIL E
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
DETAIL "C"
DETAIL "F"
DETAIL "G"
NOTCH
END SUPPORT ANGLES
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS FULL THROAT FILLET.
79-80(N)
BLDG B FLOORS 79-80 (WEST)
James White 1/2/70
CHECKED BY T.M. CHIPRA
DATE 5-24-68
221



	Mark	No.	Size	Ref. Drwg.
FLOOR TRUSSES		6	C32T1K 58'-6"	[illegible]
BRIDGING TRUSSES	T11	[illegible]	24T11 - 19'-10"	ST211
	T12	3	24T12 - 19'-11"	ST212
3 x 2 1/2" x 1/4" ANGLE	[illegible]	[illegible]	[illegible]	[illegible]
	A2	4	3 x 2" x 1/4" x 9'-11"	ST 403
	A3	3	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	5	[illegible]	ST 403
PATCH PLATES	PP1	18	2" x 1/4" x 0'-8"	ST 400
	PP2	18	[illegible]	ST 400
COVER PLATES	A	3	.085 x 15'-2"	ST 308
	B	6	.085 x 15'-2"	ST 303
	C	3	.135 x 15'-2 1/2"	ST 302
	[illegible]	[illegible]	.135 x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
SHEAR ANCHOR	SA2	9	REBAR x 0'-9"	ST 400
BEARING SADDLE	[illegible]	[illegible]	3-6 7/8"	ST 400
	[illegible]	[illegible]	3'-6 7/8"	ST 288
CONNECTION BAR	CB1	4	1'-3"	ST 400
CLOSURE UNIT	BC	3	[illegible]	ST 212
			6'-6 1/2"	CU 205
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-6"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400


PANEL NO C1P SIZE 20'-0" x 57'-7"
TRUSS NO C32T1P 57'-7" LONG
CLOSURE UNIT (BC)
L = 57'-7"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
REQUIRED MATERIAL
COVER PLATES
ANGLE CLIPS
DAMPING SADDLE
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
SECTION A-A
TOP VIEW-DETAIL B
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
BLDG. A FLOORS 74 (N)
BLDG. B FLOORS 74 (WEST)
LACLEDE STEEL COMPANY
MADISON, ILLINOIS
1/2/70


OVERALL LENGTH = 58'-3"
DAMPING
CORE END
COLUMN END
TRUSS NO. C32TIM 58'-3" LONG
CLOSURE UNIT
L = 58'-3"
DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON COLUMN CLIPS & BRACES
PANEL NO. C1M SIZE 20'-0" x 58'-3"
REQUIRED MATERIAL PER PANEL
FLOOR TRUSSES
BRIDGING TRUSSES
3"x2 1/2 ANGLE
PATCH PLATES
SHEAR ANCHOR
DAMPING SADDLE
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
6-6-68 AS NOTED
NO. DATE REVISION
TOP VIEW DETAIL A
DETAIL A
SECTION C-C
DETAIL D
DETAIL E
DETAIL B WHEN APPLICABLE
DETAIL A1 WHEN APPLICABLE
TOP VIEW DETAIL B
SECTION E-E
DETAIL F
DETAIL G
SECTION A-A
FLOOR PANEL DETAILS
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
PANEL C1M
BLDG. B FLOORS 72-73 (WEST)
LACLEDE STEEL COMPANY
MADISON, ILLINOIS



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	C32T1A - 59'-9"	[illegible]
[illegible] TRUSSES	T11	[illegible]	[illegible]	[illegible]
	T12	3	[illegible]	BT 212
[illegible] ANGLE	A1	3	[illegible]	ST 403
	A2	4	[illegible]	ST 403
	A3	2	[illegible]	ST 403
[illegible]	F1	3	[illegible] x 6'-8"	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible]	ST 400
COVER PLATES	A	3	9" x .0135 x 3'-11 1/2"	ST 303
	B	6	9" x .0135" x 5'-2"	ST 303
	C	3	9" x .0135" x 3'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-5"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" x [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 x 1 1/2" x 1 1/4" x .230 x 6'-6 1/2"	BT 212 / CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	5-6-69	AS NOTED	G.D.C.
1	7-17-68	GENERAL	T.M.C.

REF. D-WG:

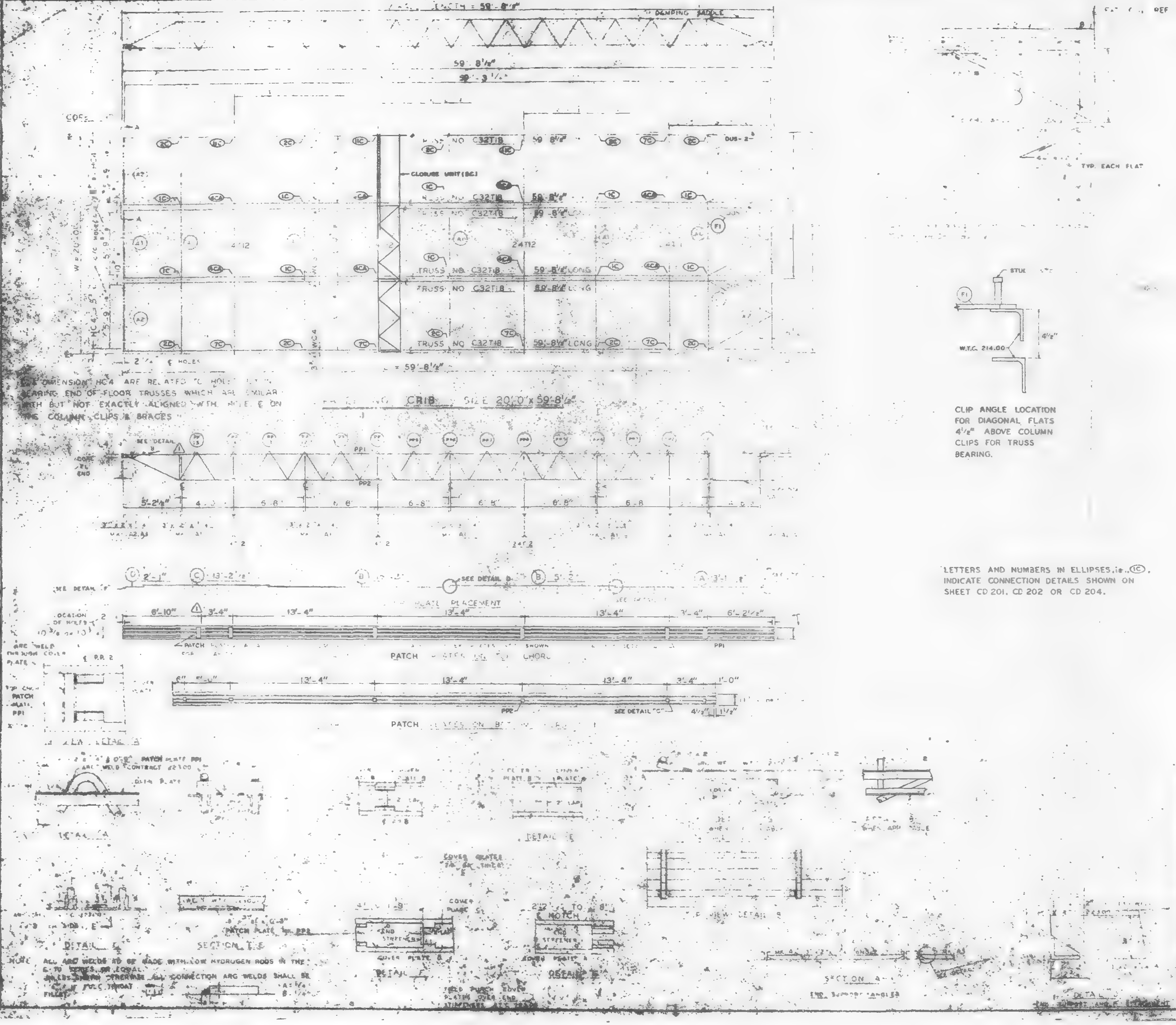
7-AB4-1	10-15-68
AB4-4	7-22-68
AB4-41	7-22-68
[illegible]A-24	1-6-69
7-AB3-2	[illegible]-3-68
7-AB-2	7-22-68
7-AB4-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible]-24, 26-38 (NORTH & SOUTH), 49-58, 60-66, 68, 69 (NORTH) PANEL CRIA - 20'-0" x 59'-9"

BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-58, 60-[illegible]

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-8 [illegible] 4-1-68 DATE
APPROVED FOR FABRICATION BY [signature: James White] DATE 1/2/70
DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE APRIL 10, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP CRIA



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	[illegible]	[illegible]	[illegible]	
[illegible]		8	18 - 59'-8½"	ST 201
[illegible]		3	24T12 [illegible]	BT 212
[illegible] ANGLE	A1	5	[illegible] 9'-11"	ST 403
	A2	4	[illegible] x 5 [illegible]	ST 403
			[illegible]	ST 403
[illegible]			[illegible]	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible] 3"	ST 400
[illegible]		3	[illegible] x 3' [illegible]	ST 303
		5	[illegible] x 5'-2	ST 303
		3	[illegible] x 2'-2	ST 303
		3	[illegible] 2'-1"	ST 303
ANGLE [illegible]		21	[illegible] x 0'-6	ST 400
[illegible]	SA2	12	[illegible] x 0'-9"	ST 400
[illegible]			[illegible] x 3'-6⅞"	ST 298
			[illegible] x 3'-6⅞"	ST 298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] x 1¼" x	BT 212
			232 x 6'-6½"	CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-9-69	AS NOTED	G.D.C.

[illegible]	10-15-68
[illegible]	7-22-68
[illegible]	7-22-68
A	1-6-69
7-AB3-[illegible]	[illegible]
7-AB1-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-[illegible]	10-15-68

83-91 & 93-106 (N)

[illegible] CRIB [illegible] x 59'-8½"

BLDG. 8 FLOORS 83-91 & 93-106 (WEST) ⚠1

FABRICATION BY ALLIED STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-8

APPROVED FOR FABRICATION — James White — DATE 1/2/70

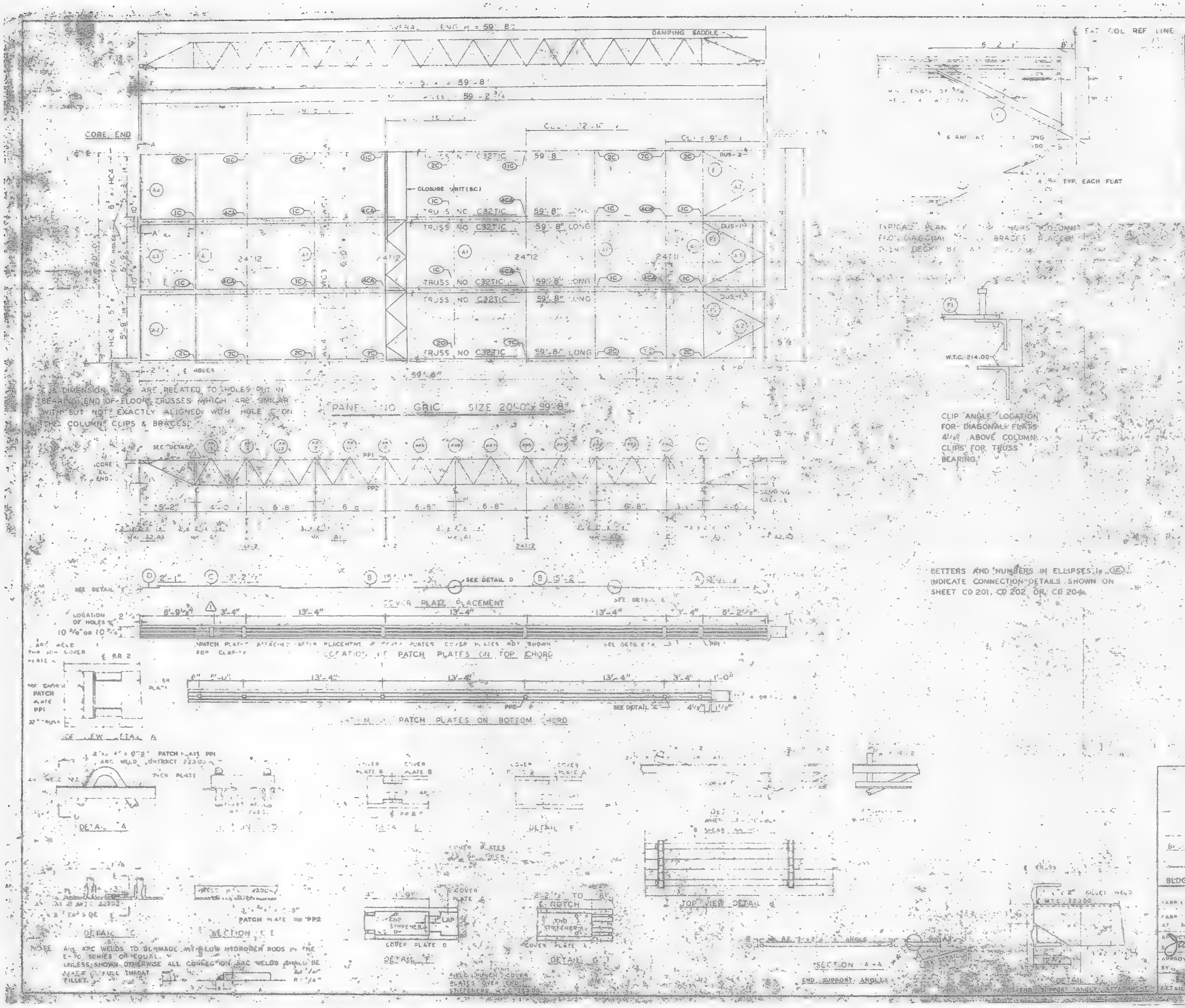
DRAWN BY [illegible] DATE OCT 23, 1968

APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE

CHECKED BY T.M. CHURN DATE OCT 23, 1968

FABRICATION CONT. NO. W.T.C. 821

DETAILED BY [illegible]



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL			SIZE	
FLOOR TRUSSES	C		C32TIC - 59'-8	ST 201C
BRIDGING TRUSSES			24" 9	
		3	24T12 19'-11	BT 212
3 x x 1/4" ANGLE	A1	5	3 x 2 x 1/4 x 6'-11"	ST 403
	A2	4	3 x 2" x 1/4 x 5-11 9/16	ST 403
		2		ST 403
DIAGONAL FLATS	F	8	2 x x 6 8	ST 402
PATCH PLATES	PP1	18		ST 400
	PP2	18	3 3"	ST 400
COVER PLATES	A	3	9" x 0.035 x	ST 303
	B	6	9" x .035 x 5 2	ST 303
	C	3	9" x 0.035 x 3'-2 1/2	ST 303
	D	3	9" x 0.035" x 2'-1"	ST 303
ANGLE CLIPS	C	21	2" x 1 1/2 x 1/4 x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2" x 3 1/2" x 3/8" x 3-6 7/8"	ST 298
	DUS 2	1	3 1/2 x 3 1/2" x 3/8 x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1 5/8 x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 4 x 1 1/2" x 1 1/4" x	BT 212
			.230 x 6'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-9-69	AS NOTED	G.D.C.

REF. DWGS

AB4-3	10-15-68
AB4-15,16 & 39	7-22-68
AB4-41	7-22-68
A 24	1-6-69
AB3-2	1-3-68
AB1-2	7-22-68
AB4-6 & 7	7-22-68
AB4-42	10-15-68

THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 49-58, 60-66, 68-74, 79-91 & 93-106 (S)

PANEL GRIC 20'-0" x 59'-8"

BLDG. B FLOORS 49-58, 60-74, 79-91 & 93-106 (EAST) (1)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-8

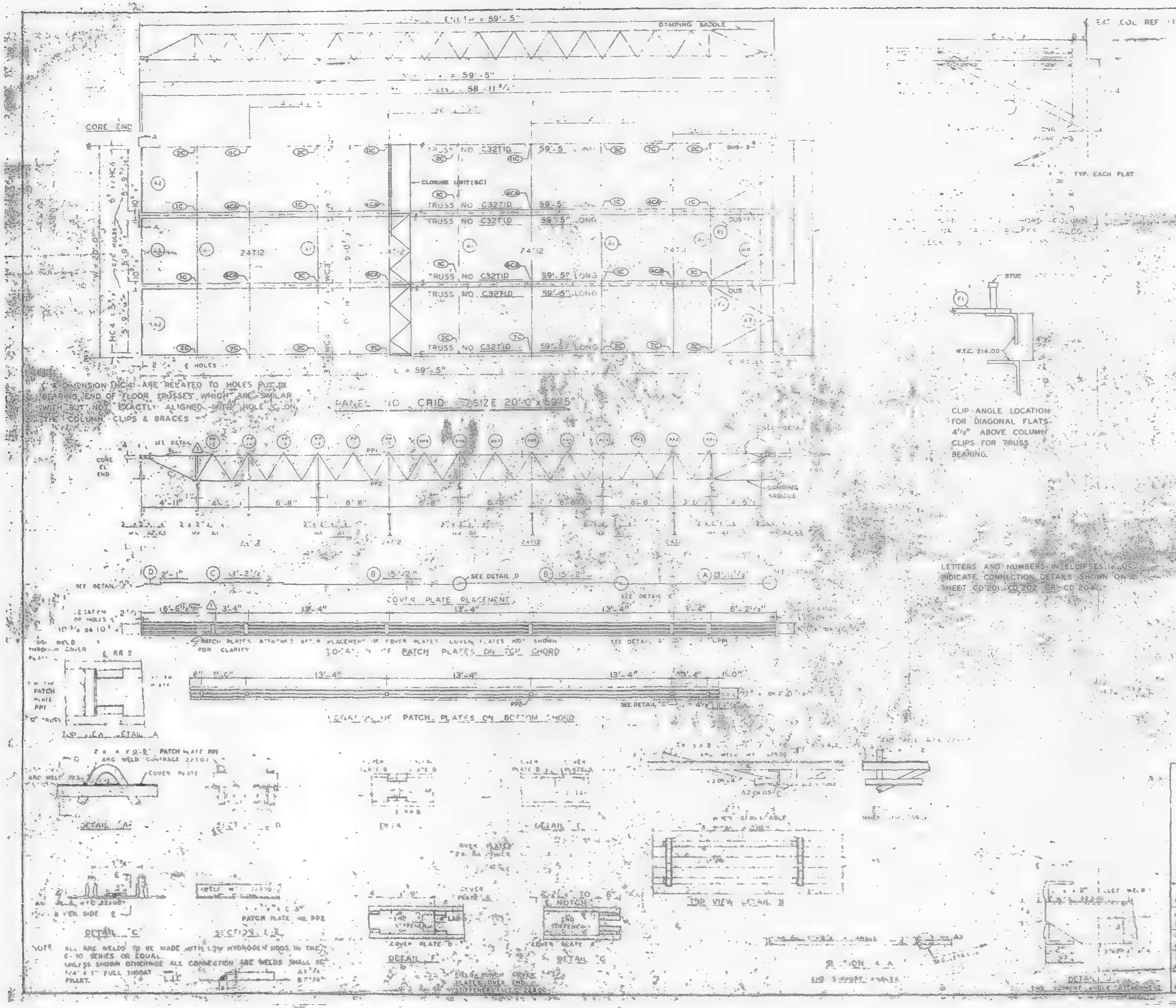
APPROVED FOR FABRICATION BY James White P.N.Y.A. DATE 1/2/70

DRAWN BY DATE OCT 23, 1968

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

CHECKED BY T.M.CHURA DATE OCT 23, 1968

FABRICATION CONT. NO. W.E.C.



REQUIRED MATERIAL PER PANEL				REF DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	D		32T1D - 59'-5"	ST201D.
[illegible] TRUSSES		1	24[illegible] - 19'-1"	ST2[illegible]
	T12	3	24T12 - 19'-11"	BT212
[illegible] ANGLE	A	3	3 x 2 x [illegible] x 18'-11"	ST 403
	A2	4	3 x 2" x 1/4 x 5'-11 10	ST 403
	A3	2	3" x 2" x [illegible] x 5 [illegible] 3/4"	ST 403
DIAGONAL [illegible]	[illegible]	5	2 x [illegible] x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 0-9'	ST 400
	PP2	18	[illegible] - 3"	ST 400
COVER PLATES	A	3	9" x .0135 x 13'-11 1/4	ST303
	B	6	9" x .0135 x 15'-2	ST303
	C	3	9" x .0135" x 13'-2 1/2	ST303
	D	3	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	21	2" x 1 1/2 x 1/4" x 0'-6	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2 x 3/8" x 3'-6 7/8"	ST298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST298
CONNECTION BAR	CB1	4	1" # x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - [illegible] 1 1/2" x 1 1/4" x .230 x 6'-8 1/2"	ST212 / CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	
1	6-9-69	AS NOTED	

1 AB4 [illegible]	10-13-69
AB4 [illegible]	7-22-68
AB4 [illegible]	7-22-68
A-12 A	1-6-69
AB3	[illegible]
AB1	7-22-68
AB2	7-22-68
AB4	10-13-69

[illegible] AUTHORITY

[illegible] FLOORS 81-82 (N)

PANEL C812 [illegible] x 59'-5"

BLDG. B FLOORS 81-82 (WEST) 1

FABRICATED BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. AB3 B

APPROVED FOR FABRICATION BY James White [illegible] DATE [illegible]/70

DRAWN BY [illegible] DATE OCT 23, 1968

APPROVED FOR FABRICATION BY [illegible] DATE [illegible]

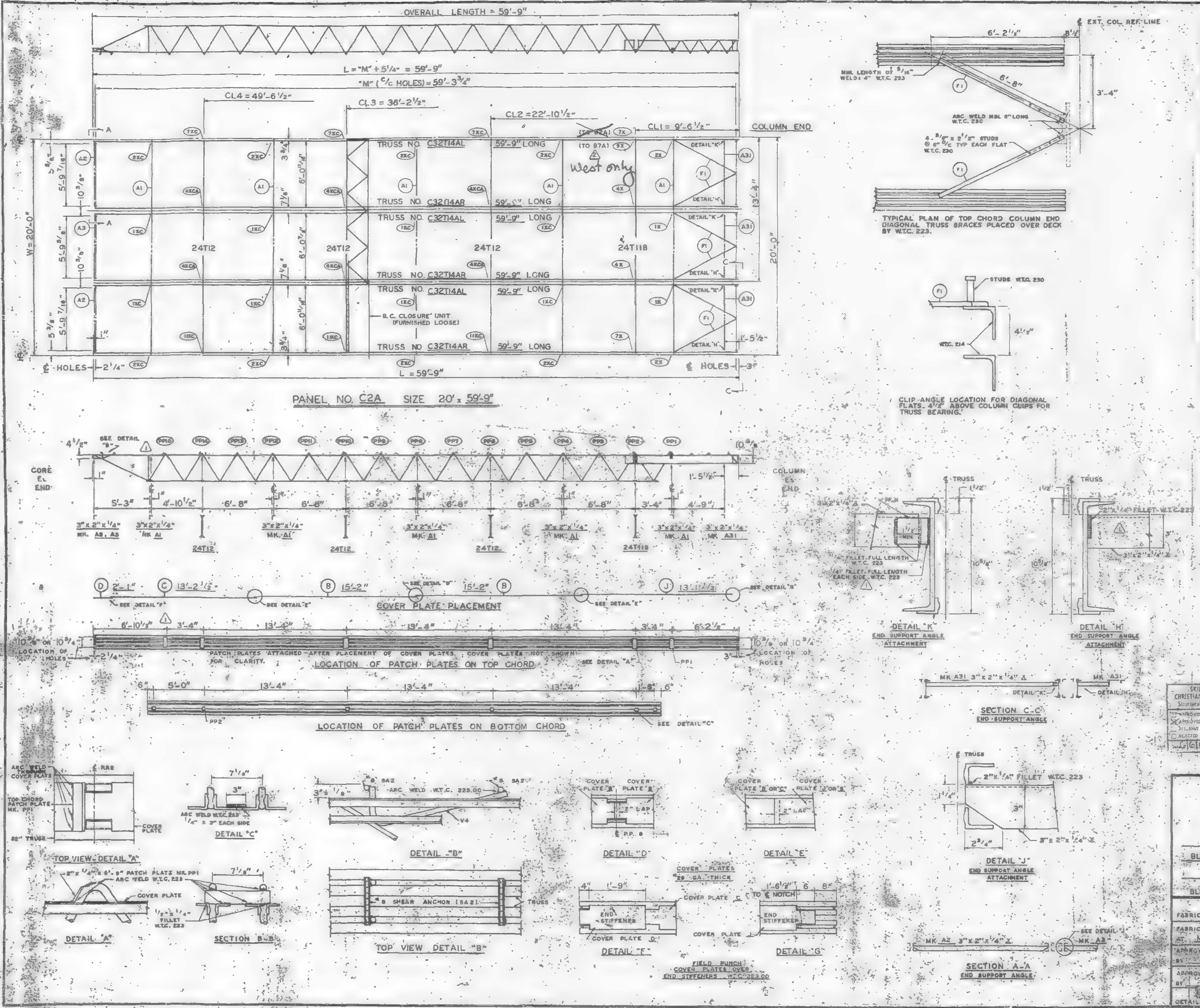
CHECKED BY T.M. CHORA DATE OCT 23, 1968

IN CHARGE OF [illegible]

DETAILED BY A.C. WEBER

FABRICATION CONT. NO. [illegible] 221

SHEET NO. FP C812



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	ST 2118
	T12	3	24T12 x 19'-11"	ST 212
CLOSURE UNIT	BC	3	1 1/4" O 6'-6 1/2" TUBE	ST 212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	1	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A31	3	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2" x 1 1/2" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.: (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY
2	5-12-69	AS NOTED	G.D.C.
1	2-4-69	AS NOTED	G.D.C.

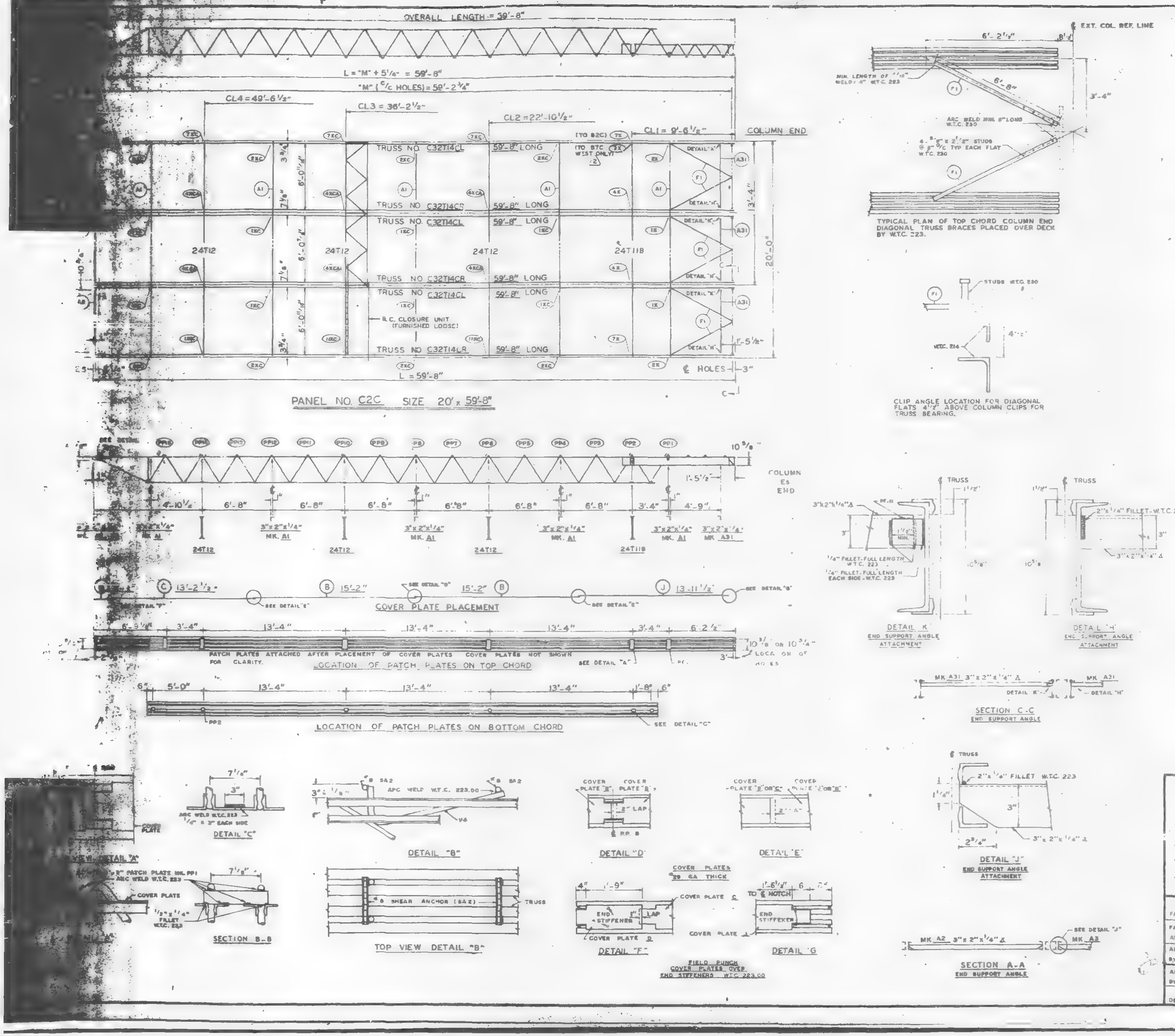
SKILLING · HELLE · CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers
APPROVED
☒ APPROVED AS NOTED
RESUBMIT
REJECTED
Date 6/6/69 by SK

REF DRWG.		
	7-AB3-28	10-4-68
	7-AB4-28	7-22-68
	7-AB1-13	10-4-68
	7-AB2-7	7-22-68
	7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH) (1)
PANEL C2A - 20' x 59'-9"
BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST) (2)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-28
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY [illegible] DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE DEC. 5, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP C2A



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T11B	1	24T11B x 19'-11"	BT 211B
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" □ 6'-6 1/2" TUBE	BT 212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	1	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A31	3	3" x 2" x 1/4" x 5'-8 1/8"	ST 418
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2" x 1 1/2" x .25" x 0'-6"	ST 400
#6 SHEAR ANCHOR	SA2	6	#6 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY
2	6-13-69	AS NOTED	G.D.C.
1	5-12-69	AS NOTED	G.D.C.

REF. DRWG.

7-A83-28	10-4-68
7-A84-28	7-22-68
7-A91-13	10-4-68
7-A82-7	7-22-68
7-A82-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

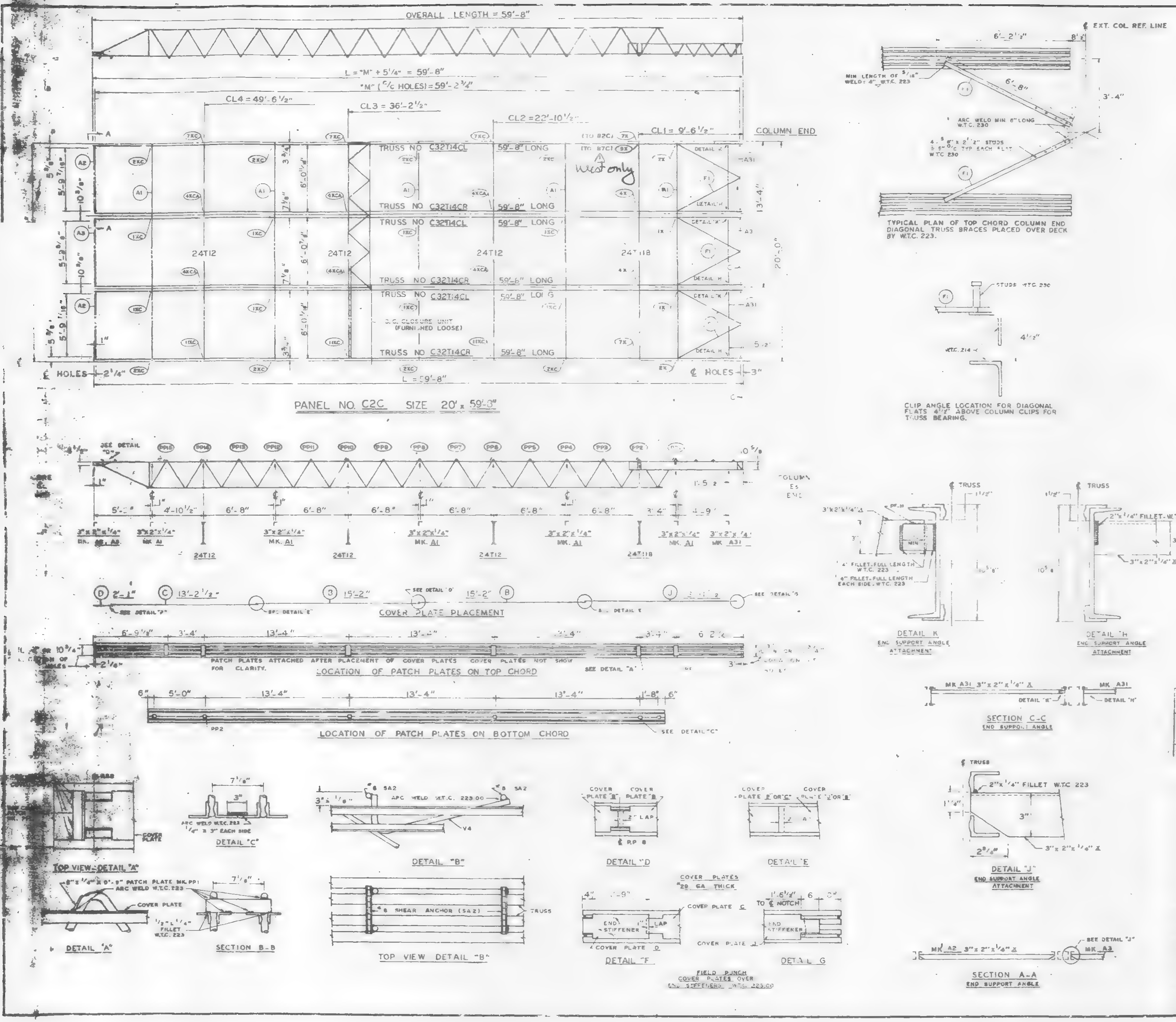
BLDG. A FLOORS 59 & 92 (SOUTH)

PANEL C2C - 20' x 59'-8"

BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-A83-28	PLATE
APPROVED FOR FABRICATION BY ____ FOR P.O.N.Y.A.	DATE 7/28/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP C2C



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	BT 2118
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" O 6'-6 1/2" TUBE	BT 212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	1	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A31	3	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	[illegible]" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .035" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2" x 1 1/2" x .25" x 0'-6"	ST 400
SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-[illegible]"	ST 400
CONNECTION BAR	CB1	5	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/4" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	[illegible]	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.

NO	DATE	REVISION	BY
	5-2-69	AS NOTED	

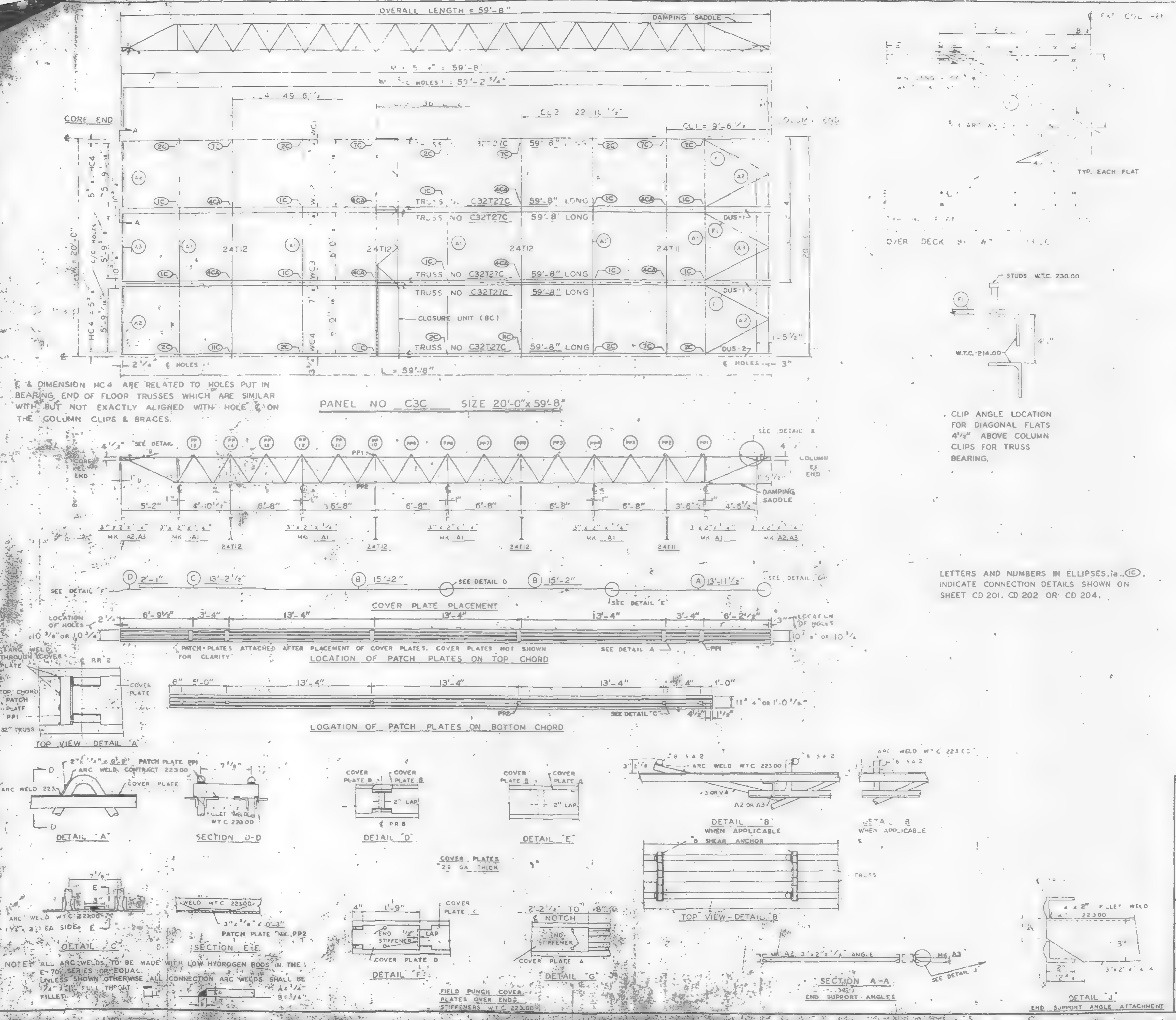
SKILLING · HELLE CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers
APPROVED AS NOTED
6/6/69 SK

REF DRWG.	
7-A83-28	10-4-68
7-A84-28	7-22-68
7-A81-13	10-4-68
7-A82-7	7-22-68
7-A82-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER · N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)
PANEL C2C - 20' x 59'-8"
BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-28 PLATE
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE
DRAWN BY luck DATE APRIL 28 1969
APPROVED FOR FABRICATION BY ______ FABRICATOR DATE
CHECKED BY T.M. CHUNG DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY
FABRICATION CONT NO W.T.C. 221
SHEET NO FP C2C



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FILLET FULL THROAT.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	27C	6	32T27C 59'-8"	ST727C
[illegible]	[illegible]	1	24" [illegible] 9' [illegible]	BT [illegible]
	T12	3	24" [illegible] 9' [illegible]	BT 212
[illegible] ANGLE	A1	5	3"x2"x 1/4"x 19'-11"	ST 403
	A2	4	3"x2"x 1/4"x 5-11 [illegible]	ST 403
	A3	[illegible]	3"x2"x 1/4"x 5-11 3/4"	ST 403
[illegible]	F		[illegible] x 5 8	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 0-9	ST 400
	PP2	18	3" x [illegible] x [illegible] 3"	ST 400
COVER PLATES	A	3	[illegible]	ST303
	B	6	9"x .0135"x 15'-2"	ST303
	C	3	9"x .0135"x 13'-2 1/2"	ST303
	D	3	5"x .0135"x 2'-1"	ST303
ANGLE CLIPS	C1	21	2"x1 1/2"x 1/4"x0-6	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3-6 7/8"	ST298
	DUS-2	1	3 1/2 x 3 1/2 x 3/8 x 3-6 7/8"	ST298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1 1/2" x 1/4" x	BT2.2
			230 x 6'-6 1/2"	CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

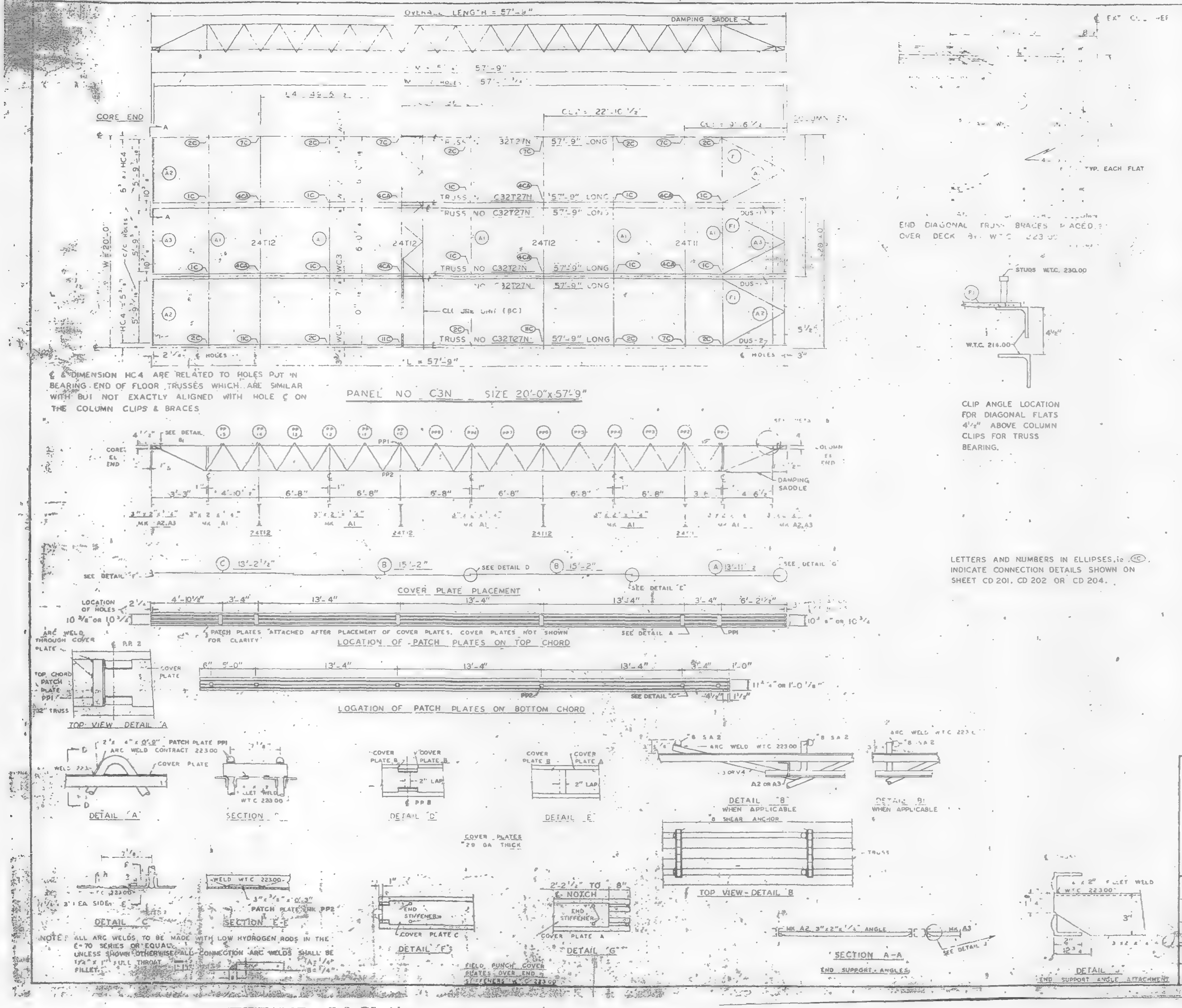
NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-12 4	1-6-69
7-AB9-45	1-6-69
7-AB1-24	1-6-69
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 78 (SOUTH)
PANEL C3C - 20'-0" x 59'-8"
BLDG. B FLOORS 78 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-45 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 7/31/69
DRAWN BY DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M.CHURA DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
[redacted]
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO FP C3C



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
[illegible]	[illegible]27N	6	[illegible] T27N 57'-9	ST227N
[illegible]				[illegible]
[illegible]	T[illegible]	[illegible]	24T[illegible]	BT212
[illegible]	A	3	3"x2"x[illegible]x19'-11"	ST 403
	A2	[illegible]	[illegible]x5 [illegible]	ST 403
	A3	2	3x2[illegible]x5 [illegible]	ST 403
[illegible]	F	[illegible]	[illegible] 8	ST 402
PATCH PLATES	PP1	18	[illegible] 3	ST 400
	PP2	18	[illegible] 3"	ST 400
COVER PLATES	A	3	9"x .0135"x 13'-11 1/2"	ST303
	B	6	9"x .0135"x 15'-2"	ST303
	C	3	9"x .0135"x 13'-2 1/2"	ST303
ANGLE CLIPS	C1	21	2"x1 1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
	DUS 2	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1 1/2"x 1 1/4"x .230 x 6'-6 1/2"	BT212 / CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA 12 4	1-6-69
7-AB3-45	1-6-69
7-AB1-24	1-6-69
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

[illegible] 44 (EAST)

PANEL C3N - 20'-0" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-AB3-45 PLATE

APPROVED FOR FABRICATION BY [illegible] FOR PONYA — DATE 7/31/69

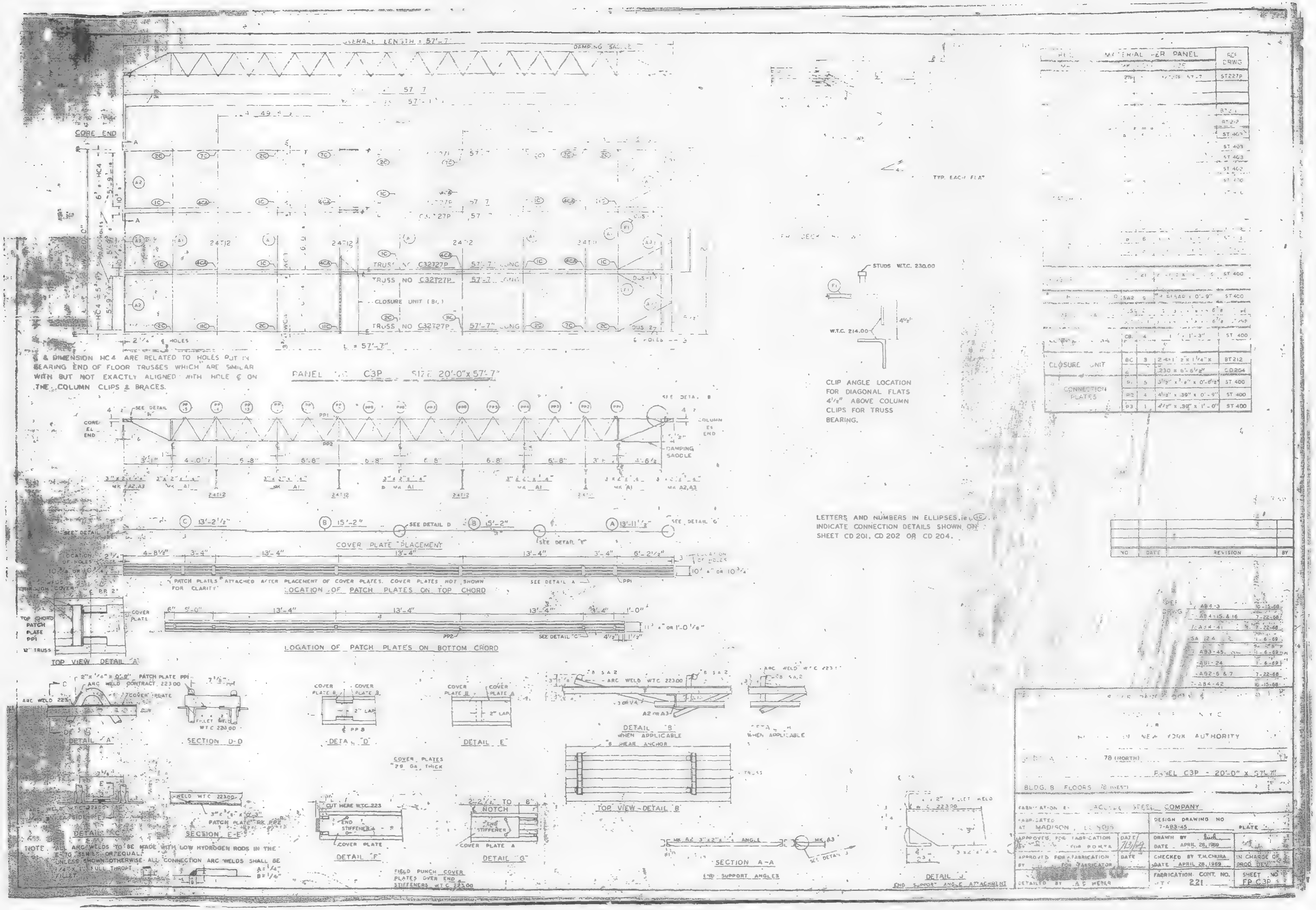
DRAWN BY [illegible] — DATE APRIL 28, 1969

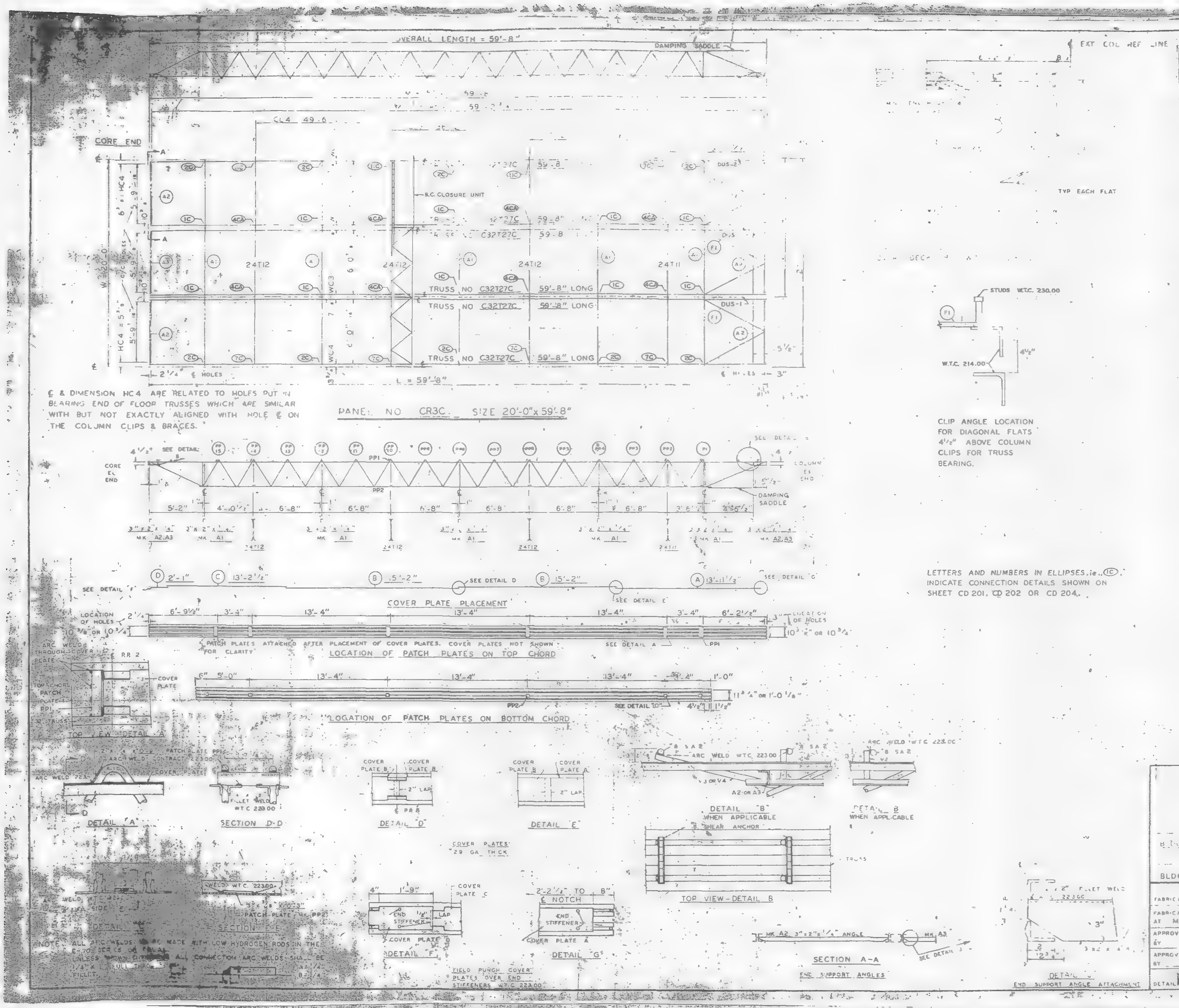
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR — DATE

CHECKED BY T.M.CHURA — DATE APRIL 28, 1969 — IN CHARGE OF PROD. DEV.

DETAILED BY [illegible] WEBER — LACLEDE STEEL CO

FABRICATION CONT. NO. WTC 221 — SHEET NO. FP C3N


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
CORE END
TRUSS NO C32T27P 57'-7" LONG
CLOSURE UNIT (BC)
L = 57'-7"
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
PANEL NO. C3P SIZE 20'-0" x 57'-7"
CORE EL END
COLUMN ES END
DAMPING SADDLE
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
COVER PLATES 20 GA. THICK
TOP VIEW - DETAIL "B"
DETAIL "C"
SECTION E-E
DETAIL "F"
DETAIL "G"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 3/16" FULL THROAT FILLET.
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES, I.E. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
MATERIAL PER PANEL
CLOSURE UNIT
CONNECTION PLATES
NO DATE REVISION BY
7-A84-3 10-15-68
7-A84-15 & 16 7-22-68
7-A84-41 7-22-68
7-A83-45 1-6-69
7-A81-24 1-6-69
7-A82-6 & 7 7-22-68
7-A84-42 10-15-68
NEW YORK AUTHORITY
78 (NORTH)
PANEL C3P - 20'-0" x 57'-7"
BLDG. B FLOORS 78 (WEST)
FABRICATION BY PACIFIC STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-A83-45
DRAWN BY
DATE APRIL 28, 1969
CHECKED BY T.M.CHURA
DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
APPROVED FOR FABRICATION FOR PONYA
APPROVED FOR FABRICATION BY FOR FABRICATOR
DETAILED BY A.E. WEBER
FABRICATION CONT. NO. 221
SHEET NO FP C3P



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
	27C	6	32T27C- 59'-8"	ST 27C
			24T	BT 211
		3	24T	BT 212
	A1	5	[illegible]	ST 403
	A2	4	[illegible]	ST 403
	3		[illegible]	ST 403
			[illegible] 8	ST 402
	PP1	18	[illegible] 9	ST 400
PATCH PLATES	PP2	18	[illegible] 3"	ST 400
COVER PLATES	A	3	[illegible]	ST 303
	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-2	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-1	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 1 1/2" x 1 1/4" x	BT 212
			.230 x 6'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG

7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-12-4	1-6-69
7-AB3-46	1-6-69
7-AB1-24	1-6-69
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

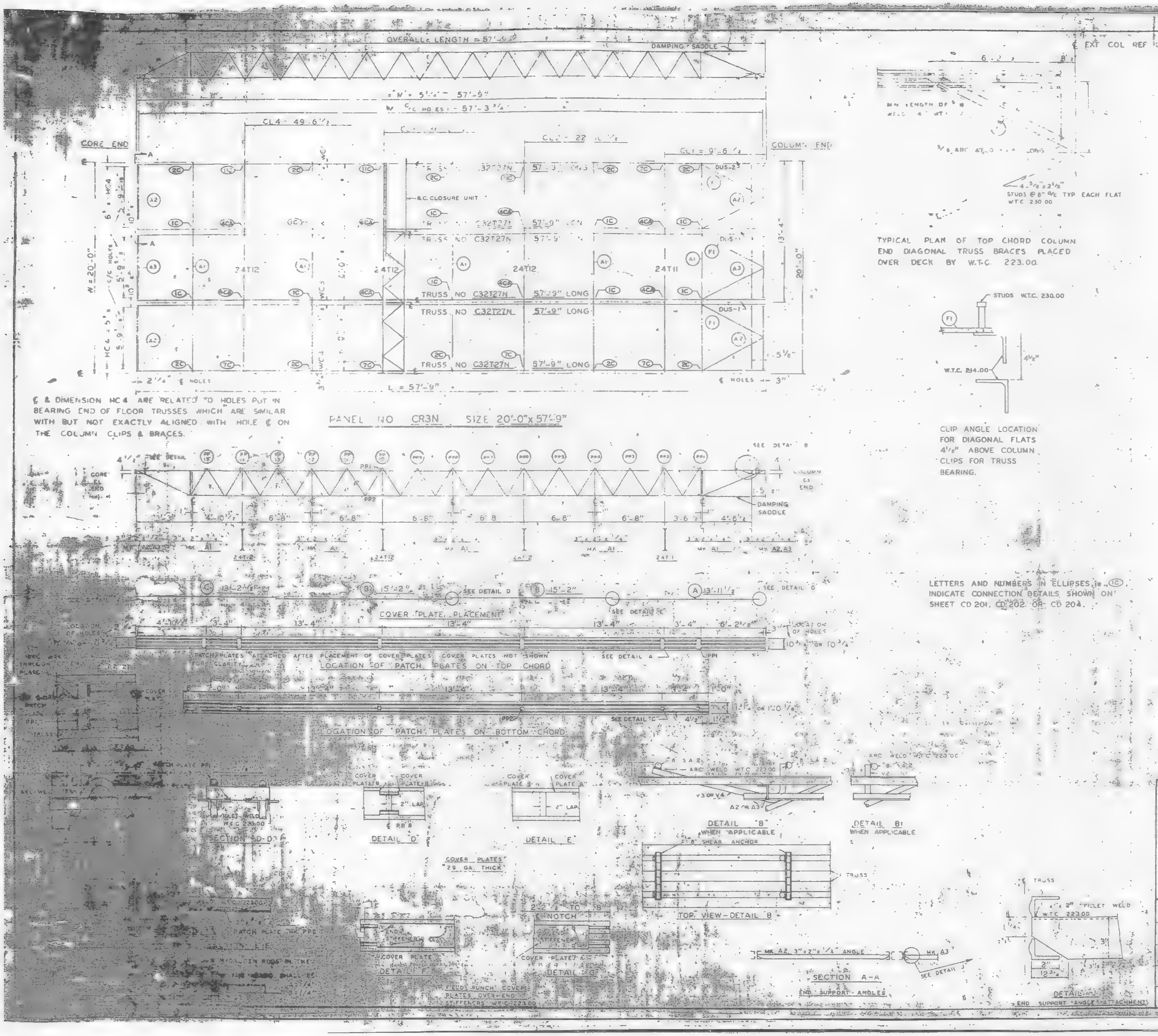
BLDG. A FLOORS 78 (SOUTH)

PANEL CR3C - 20'-0" x 59'-8"

BLDG. B FLOORS 78 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-46	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE 7/31/69	DRAWN BY DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-CR3C



€ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE € ON THE COLUMN CLIPS & BRACES.

TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00.

CLIP ANGLE LOCATION FOR DIAGONAL FLATS $4^1/_2$" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T27N	6	C32T27N 57'-9"	[illegible]
BRIDGING TRUSSES	[illegible]		24T [illegible]	[illegible]
	T2	3	24T 2 [illegible] 11"	ST 212
[illegible] ANGLE	A1	5	3 x 2 x [illegible] x 10'-[illegible]"	ST 403
	A2	4	[illegible]	ST 403
	A	2	[illegible]	ST 403
[illegible]	[illegible]	[illegible]	[illegible] x 5-6	ST 400
PATCH [illegible]	PP	8	[illegible]	ST 400
	PP2	6	[illegible]	ST 400
[illegible] PLATES	A	3	9 x .035 x 3-11 [illegible]	ST 303
	B	6	9 x .035 x 5-2	ST 303
	C	3	9 x 0.35 x 3-2 1/2	ST 303
ANGLE CLIP	C1	21	2 x 1 1/2 x [illegible] x 0'-6	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2 x 3 1/2 x 3/8" x 3-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3' 6 7/8"	ST 298
CONNECTION BAR	CB1	4	1 [illegible] x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1 1/2" x 1 1/4" x	BT 212
			.230 x 6'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF DRWG	
7-AB4-3	10-5-68
7-AB4-15 & 16	7-22-68
7-AB4-41	7-22-68
SA-124 [illegible]	1-6-69
7-AB3-46	1-6-69
7-AB1-24	1-6-69
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG B FLOORS 44 (EAST)

PANEL CR3N - 20'-0" x 57'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-46

APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE 7/3/69

DRAWN BY [illegible] DATE APRIL 28, 1969

APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE

CHECKED BY T.M. CHURA DATE APRIL 28, 1969

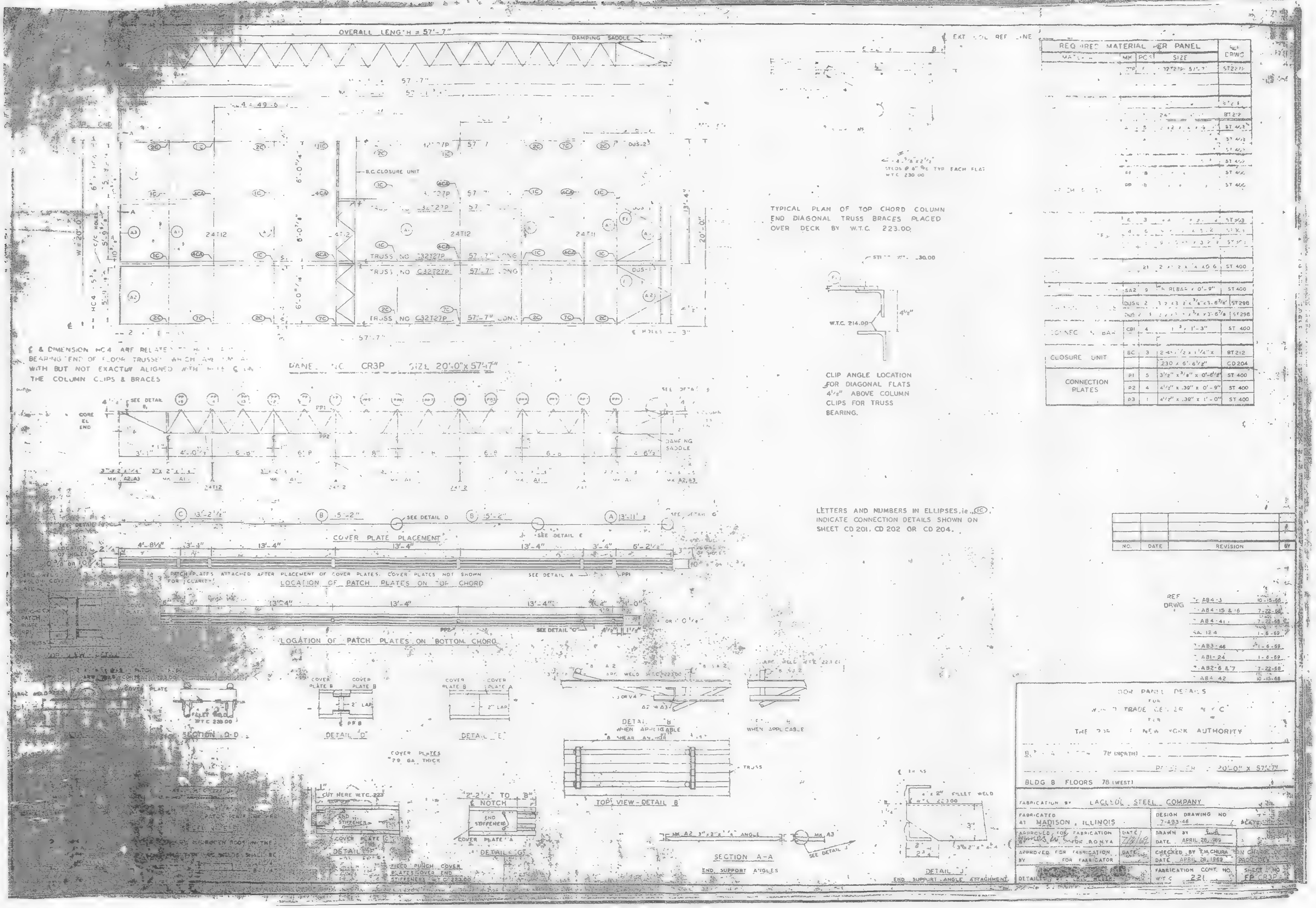
IN CHARGE OF PROD. DEV.

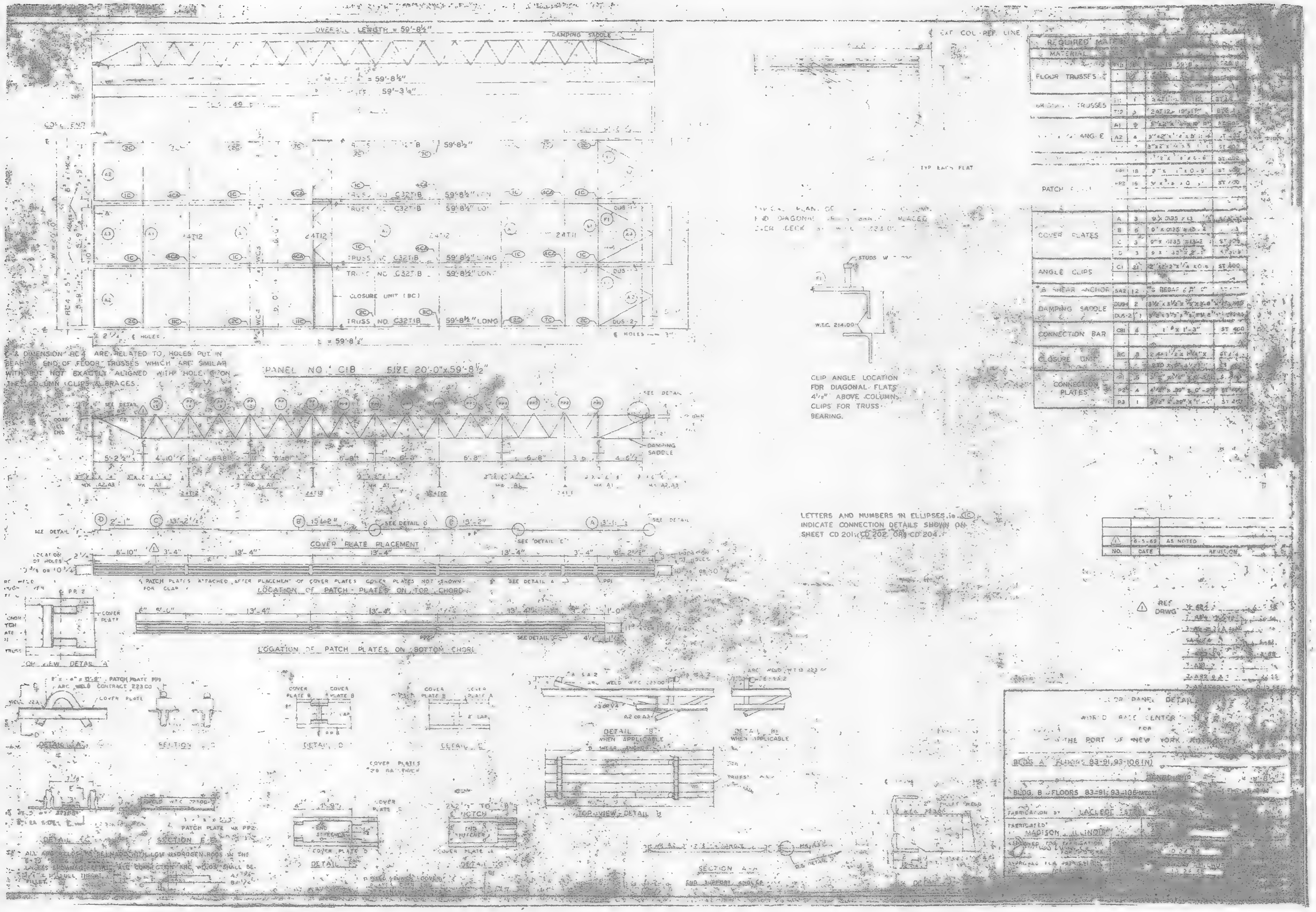
DETAILED BY [illegible]

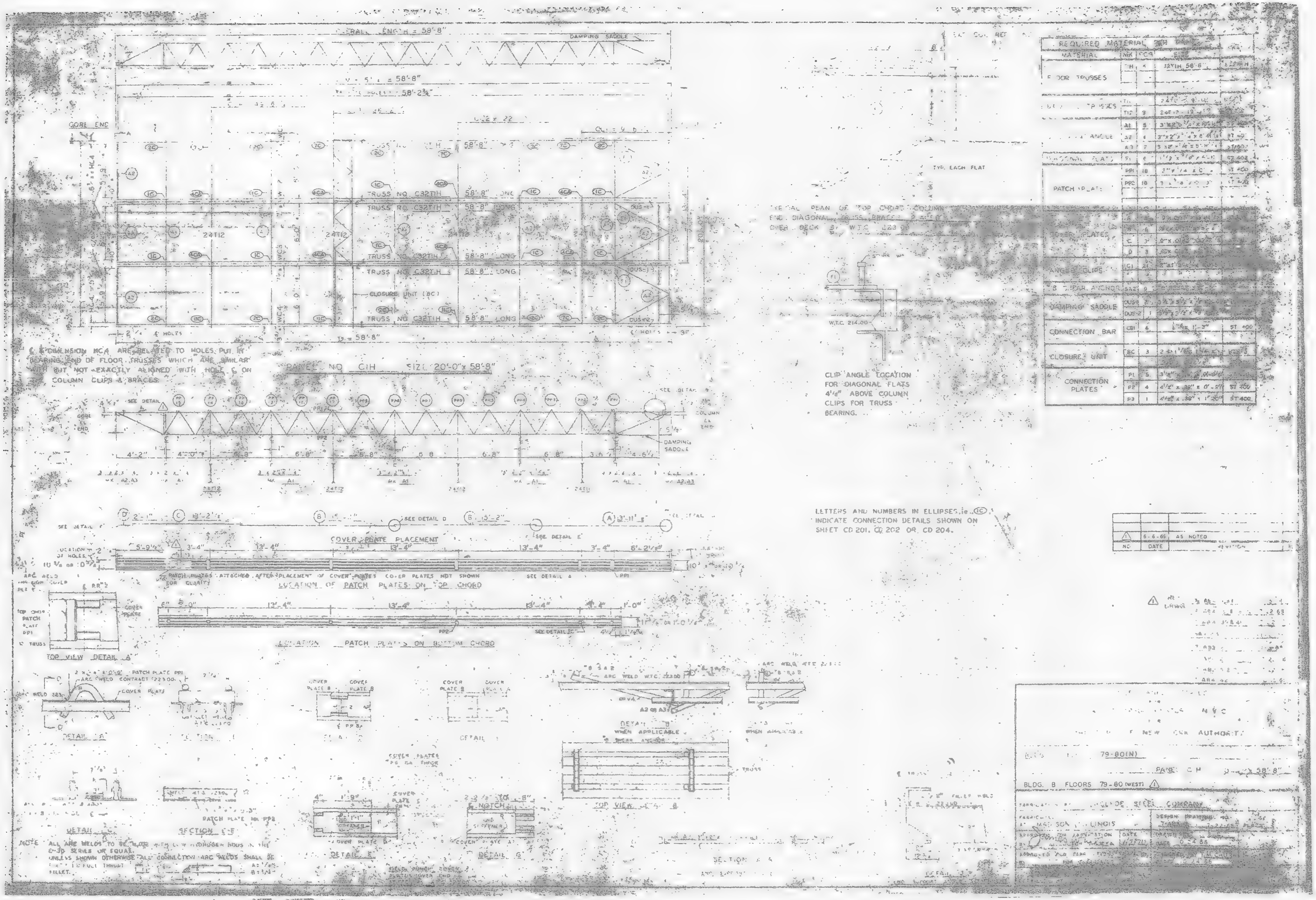
LACLEDE STEEL CO.

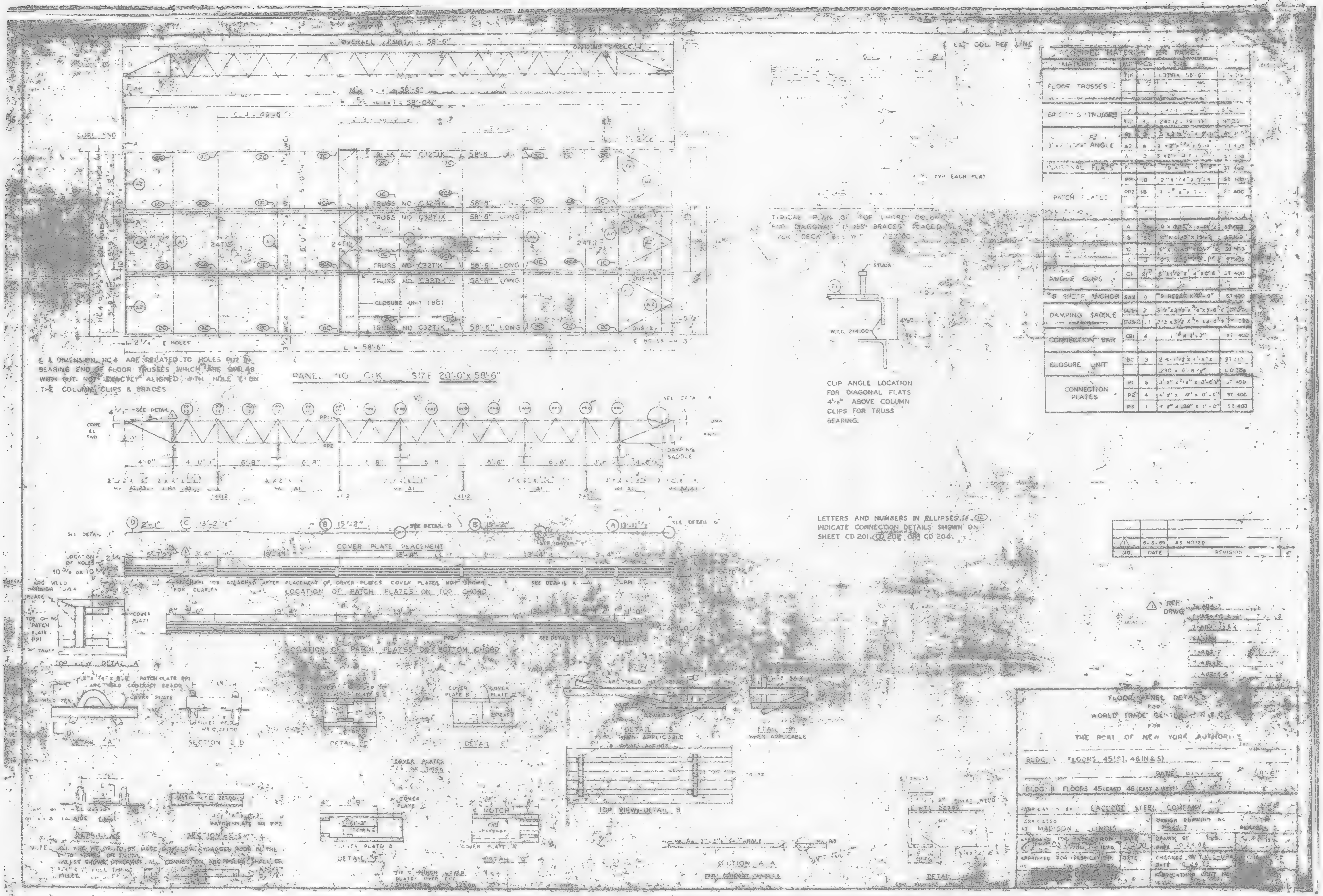
FABRICATION CONT. NO. W.T.C. 221

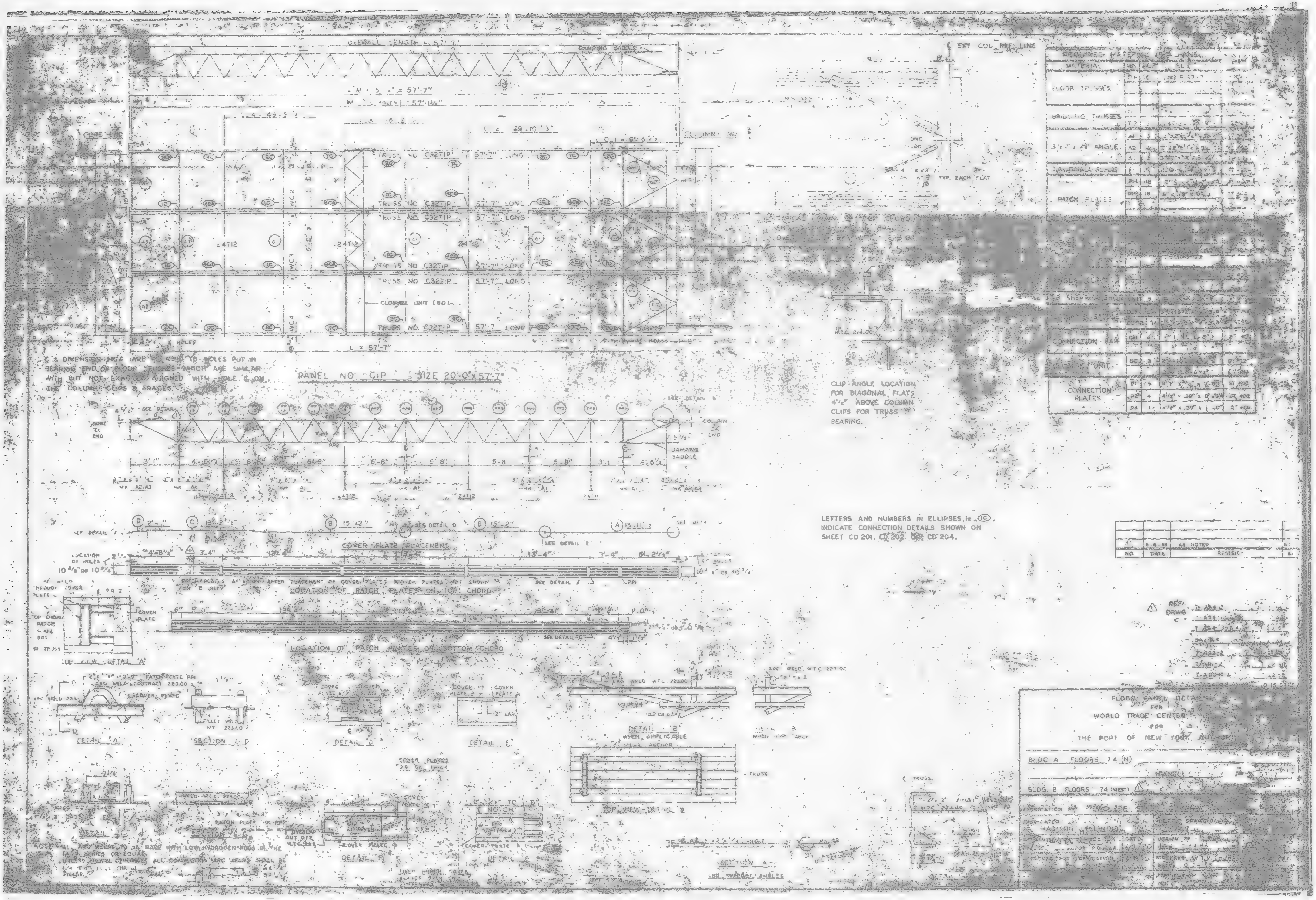
SHEET NO. FP CR3N


OVERALL LENGTH = 57'-7"
DAMPING SADDLE
B.C. CLOSURE UNIT
TRUSS NO C32T27P 57'-7" LONG
24T12
TYPICAL PLAN OF TOP CHORD COLUMN
END DIAGONAL TRUSS BRACES PLACED
OVER DECK BY W.T.C. 223.00
W.T.C. 214.00
CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4 1/2" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING.
REQUIRED MATERIAL PER PANEL
CLOSURE UNIT
CONNECTION PLATES
& DIMENSION HC4 ARE RELATED TO ... BEARING END OF FLOOR TRUSSES ... WITH BUT NOT EXACTLY ALIGNED WITH ... THE COLUMN CLIPS & BRACES
PANEL NO CR3P SIZE 20'-0" x 57'-7"
SEE DETAIL D
SEE DETAIL E
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL A
LOCATION OF PATCH PLATES ON BOTTOM CHORD
SEE DETAIL "C"
LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
NO. DATE REVISION BY
REF DRWG
7-AB4-3 10-15-68
7-AB4-15 & 16 7-22-68
7-AB4-41 7-22-68
SA 12 4 1-6-69
7-AB3-46 1-6-69
7-AB1-24 1-6-69
7-AB2-6 & 7 7-22-68
7-AB4 42 10-15-68
SECTION D-D
DETAIL "D"
DETAIL "E"
DETAIL "B" WHEN APPLICABLE
WHEN APPLICABLE
COVER PLATES 7/8 GA. THICK
TOP VIEW-DETAIL B
NOTCH
END STIFFENER
COVER PLATE A
DETAIL "G"
DETAIL "F"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SECTION A-A
END SUPPORT ANGLES
SEE DETAIL J
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
78 (NORTH)
20'-0" x 57'-7"
BLDG B FLOORS 78 (WEST)
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-46
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 7/3/69
DRAWN BY DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M.CHURA DATE APRIL 28, 1969
DETAILED
FABRICATION CONT. NO. W.T.C. 221
SHEET NO FP CR3P

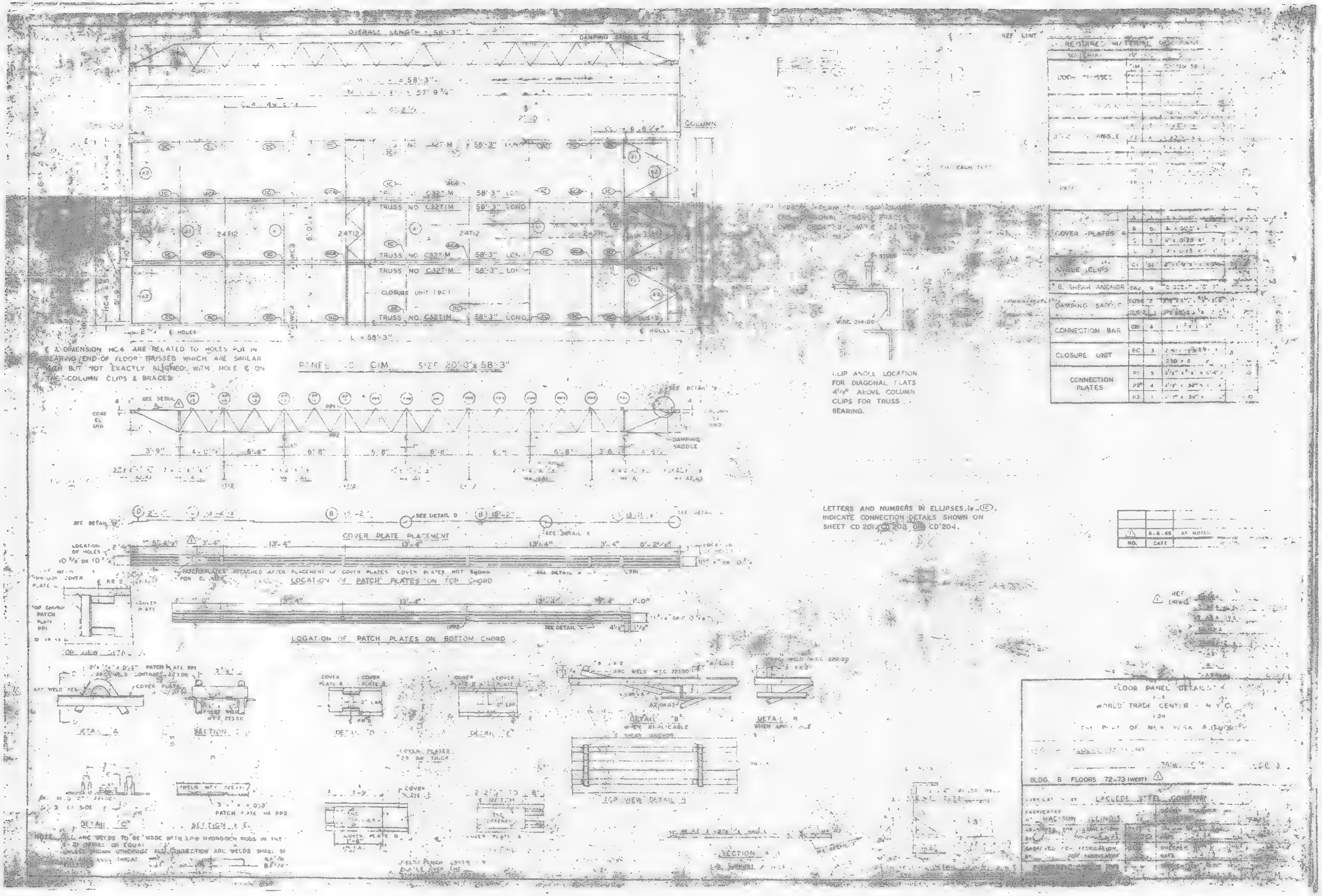

OVERALL LENGTH = 59'-8½"
DAMPING SADDLE
PANEL NO. C18 SIZE 20'-0" x 59'-8½"
TRUSS NO. C32T1B 59'-8½" LONG
CLOSURE UNIT (BC)
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL 'A'
DETAIL 'A'
DETAIL 'D'
DETAIL 'E'
DETAIL 'B' WHEN APPLICABLE
TOP VIEW DETAIL 'B'
SECTION A-A
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202, OR CD 204.
REQUIRED MATERIAL
FLOOR TRUSSES
PATCH PLATES
COVER PLATES
ANGLE CLIPS
DAMPING SADDLE
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
NO. DATE REVISION
AS NOTED
FLOOR PANEL DETAIL
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 83-91, 93-106
BLDG. B FLOORS 83-91, 93-106
LACLEDE
MADISON, ILLINOIS


OVERALL LENGTH = 58'-8"
DAMPING SADDLE
CORE END
TRUSS NO. C32TH 58'-8" LONG
CLOSURE UNIT (8C)
PANEL NO. C1H SIZE 20'-0" x 58'-8"
COLUMN CLIPS & BRACES.
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
TOP VIEW DETAIL "A"
DETAIL "A"
SECTION E-E
DETAIL F
DETAIL G
TOP VIEW
SECTION A-A
CLIP ANGLE LOCATION
FOR DIAGONAL FLATS
4½" ABOVE COLUMN
CLIPS FOR TRUSS
BEARING.
W.T.C. 214.00
LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C)
INDICATE CONNECTION DETAILS SHOWN ON
SHEET CD 201, CD 202 OR CD 204.
REQUIRED MATERIAL
MATERIAL
FLOOR TRUSSES
COVER PLATES
ANGLE CLIPS
DAMPING SADDLE
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
6-6-68 AS NOTED
NO. DATE
BLDG. 8 FLOORS 79-80 (WEST)
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FILLET.

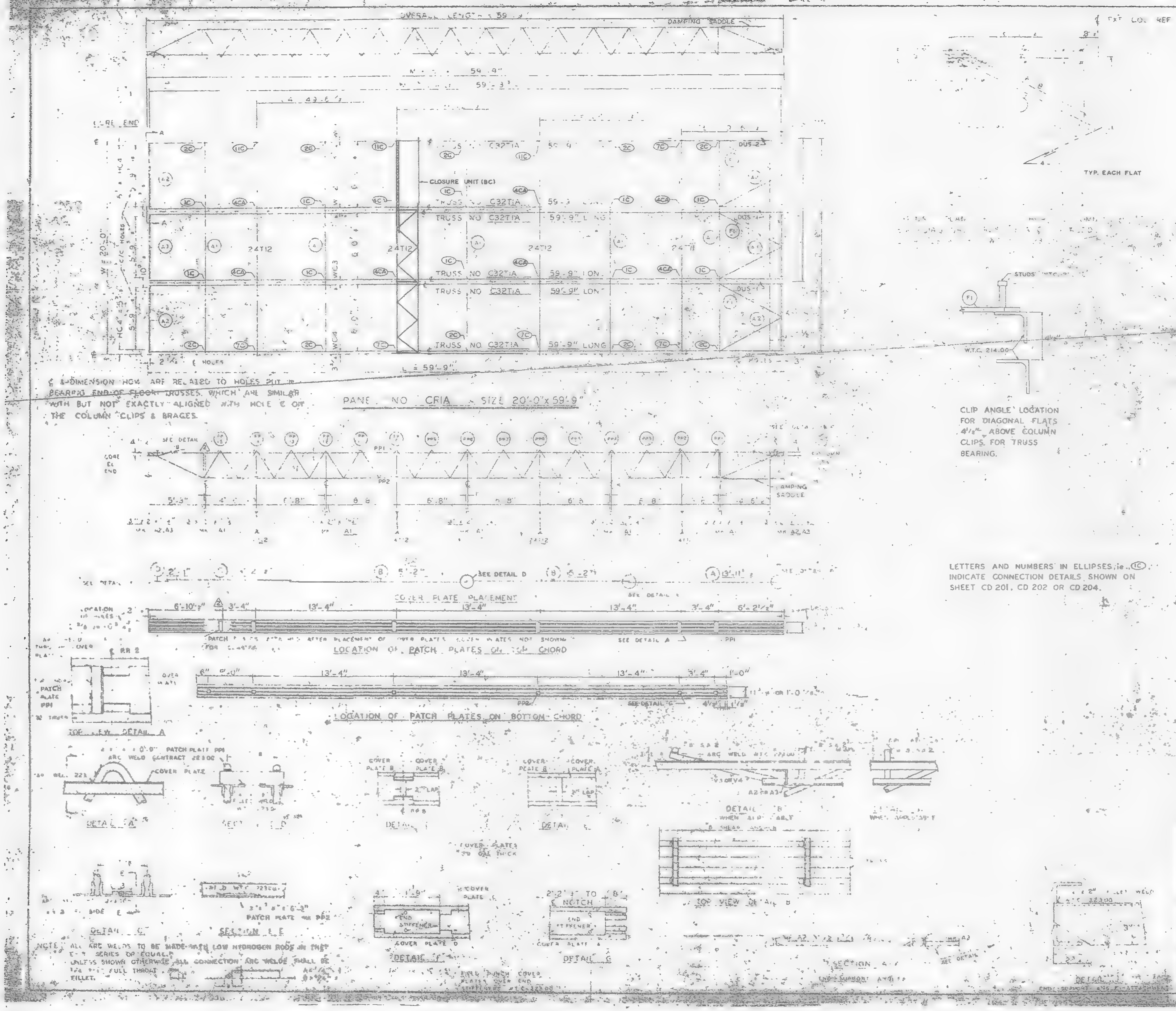

OVERALL LENGTH = 58'-6"
CORE END
TRUSS NO C32T1K 58'-6"
TRUSS NO C32T1K 58'-6" LONG
TRUSS NO C32T1K 58'-6" LONG
TRUSS NO C32T1K 58'-6" LONG
CLOSURE UNIT (BC)
L = 58'-6"
& DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES
PANEL NO C1K SIZE 20'-0" x 58'-6"
DAMPING SADDLE
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL A
SECTION D-D
DETAIL B
WHEN APPLICABLE
TOP VIEW DETAIL B
SECTION A-A
TYPICAL PLAN OF TOP CHORD OF DIAGONAL TRUSS BRACES PLACED
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
W.T.C. 214.00
LETTERS AND NUMBERS IN ELLIPSES I.E. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
REQUIRED MATERIAL PER PANEL
MATERIAL | MK | PCS | SIZE
FLOOR TRUSSES | T1K | | C32T1K 58'-6"
BRIDGING TRUSSES | | 3 | 24T12 - 19'-1"
ANGLE | A2 | 4
DIAGONAL FLATS | F1 | 5 | | ST 400
PATCH PLATES | PP1 | 8 | | ST 400
PATCH PLATES | PP2 | 18 | | ST 400
COVER PLATES | A | | | B | | | C | 3 | | D | 3
ANGLE CLIPS | C1 | 21 | | ST 400
SHEAR ANCHOR | SA2 | 9 | #8 REBAR | ST 400
DAMPING SADDLE | DUS-1 | 2 | DUS-2 | 1
CONNECTION BAR | CB1 | 4 | 1" x 1'-3" | ST 400
CLOSURE UNIT | BC | 3 | 230 x 6'-8½"
CONNECTION PLATES | P1 | 5 | ST 400 | P2 | 4 | 4' 2" x .19" x 0'-9" | ST 400 | P3 | 1 | 4' 2" x .39" x 1'-0" | ST 400
6-6-69 AS NOTED
NO. DATE REVISION
REF DRWG
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG A FLOORS 45(S), 46(N & S)
58'-6"
BLDG: B FLOORS 45(EAST) 46(EAST & WEST)
FABRICATED BY LACLEDE STEEL COMPANY
AT MADISON ILLINOIS
DESIGN DRAWING NO
DRAWN BY
DATE 10 24 68
APPROVED FOR FABRICATION
CHECKED BY T.M. CHURCH
DATE 10 24 68
FABRICATION CONT NO
ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS



OVERALL LENGTH = 57'-7"
DAMPING SADDLE
TRUSS NO. C32T1P 57'-7" LONG
CLOSURE UNIT (BC)
PANEL NO. C1P SIZE 20'-0" x 57'-7"
TYP. EACH FLAT
FLOOR TRUSSES
BRIDGING TRUSSES
PATCH PLATES
CONNECTION BAR
CONNECTION PLATES
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES, ie. (C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
DETAIL 'A'
SECTION D-D
DETAIL 'D'
DETAIL E
DETAIL 'B' WHEN APPLICABLE
TOP VIEW - DETAIL B
FLOOR PANEL DETAILS
WORLD TRADE CENTER
THE PORT OF NEW YORK AUTHORITY
BLDG A FLOORS 74 (N)
BLDG B FLOORS 74 (WEST)



OVERALL LENGTH = 58'-3"
DAMPING SADDLE
COLUMN
TRUSS NO. C32T1M 58'-3" LONG
CLOSURE UNIT (BC)
L = 58'-3"
PANEL SIZE 20'-0" x 58'-3"
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
DETAIL "A"
DETAIL "D"
DETAIL "E"
DETAIL "B"
TOP VIEW DETAIL B
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
COVER PLATES
ANGLE CLIPS
DAMPING SADDLE
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
FLOOR PANEL DETAILS
WORLD TRADE CENTER N.Y.C.
BLDG. B FLOORS 72-73 (WEST)
LACLEDE STEEL COMPANY
MADISON, ILLINOIS



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	1A	6	C32T1A - 59'-9	ST 2??
[illegible]	T1	[illegible]	24" [illegible]	BT2
	T2	1	24" [illegible]	BT22
[illegible] ANGLE	A1	5	3" x 2 x [illegible] x 15' 1"	ST 403
	A2	4	3" x 2 x [illegible]	ST 403
	A3	2	[illegible]	ST 403
[illegible]	F	5	[illegible] x 6 [illegible]	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible]	ST 400
COVER PLATES	A	3	9 x 0.35 [illegible]	ST 303
	B	6	9 x 0.135" x 5' [illegible]	[illegible] 303
	C	3	9 x [illegible]	ST [illegible]
	D	3	9 x 0.35" x 2'-1"	ST 303
ANGLE CLIPS		21	$2^{?}$" x 2" x [illegible] x 0.6	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLES	DUS 1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS 2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-4 x 1 1/2" x 1 1/4" x	BT 212
			230 x 6'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
2	6-6-69	AS NOTED	GDC
1	7-17-68	GENERAL	T.N.

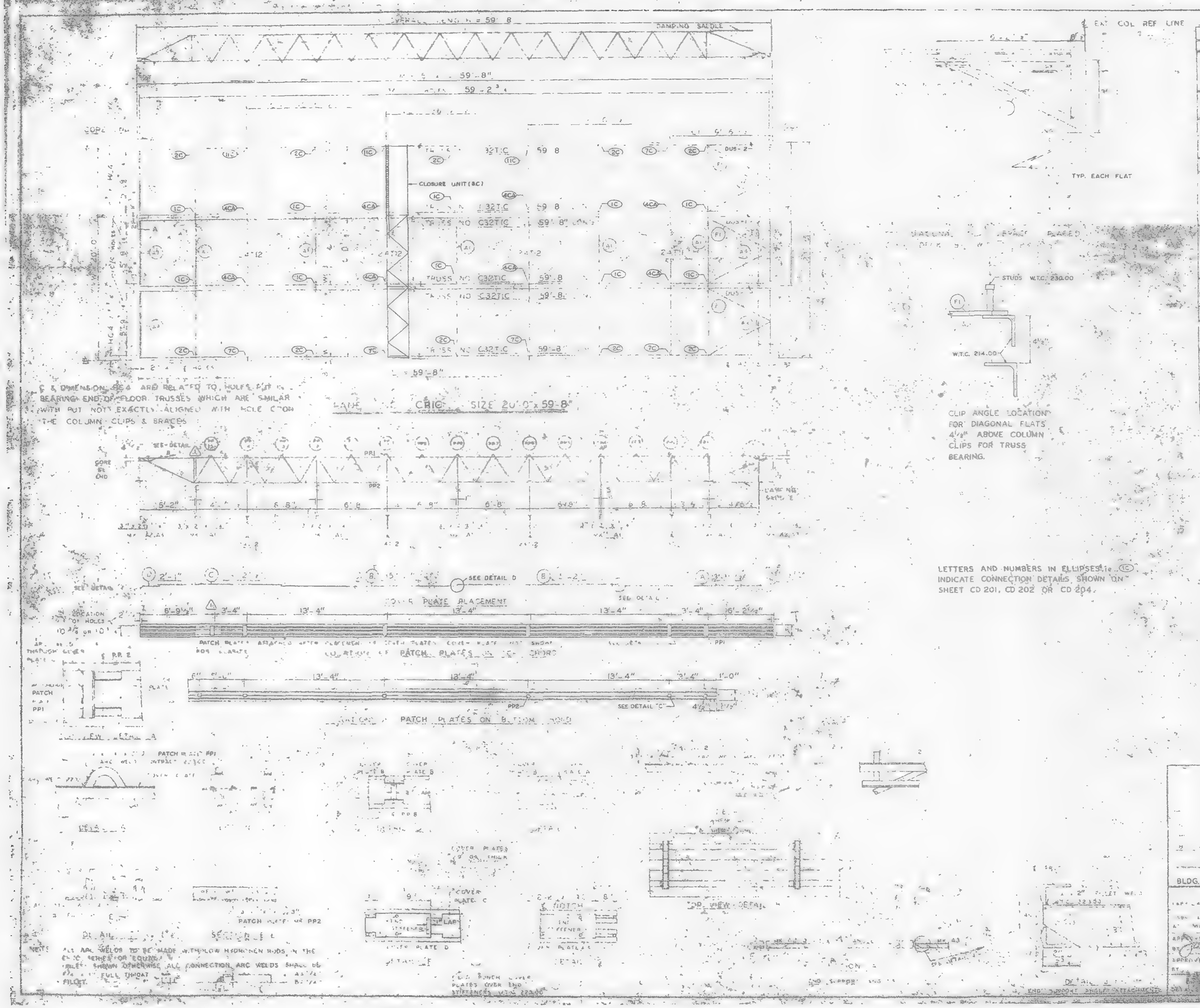
REF. DRWG.

7-AB4-2	10-15-68
7-AB4-1 & 6	7-22-68
7-AB4-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-5-68
7-AB1-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

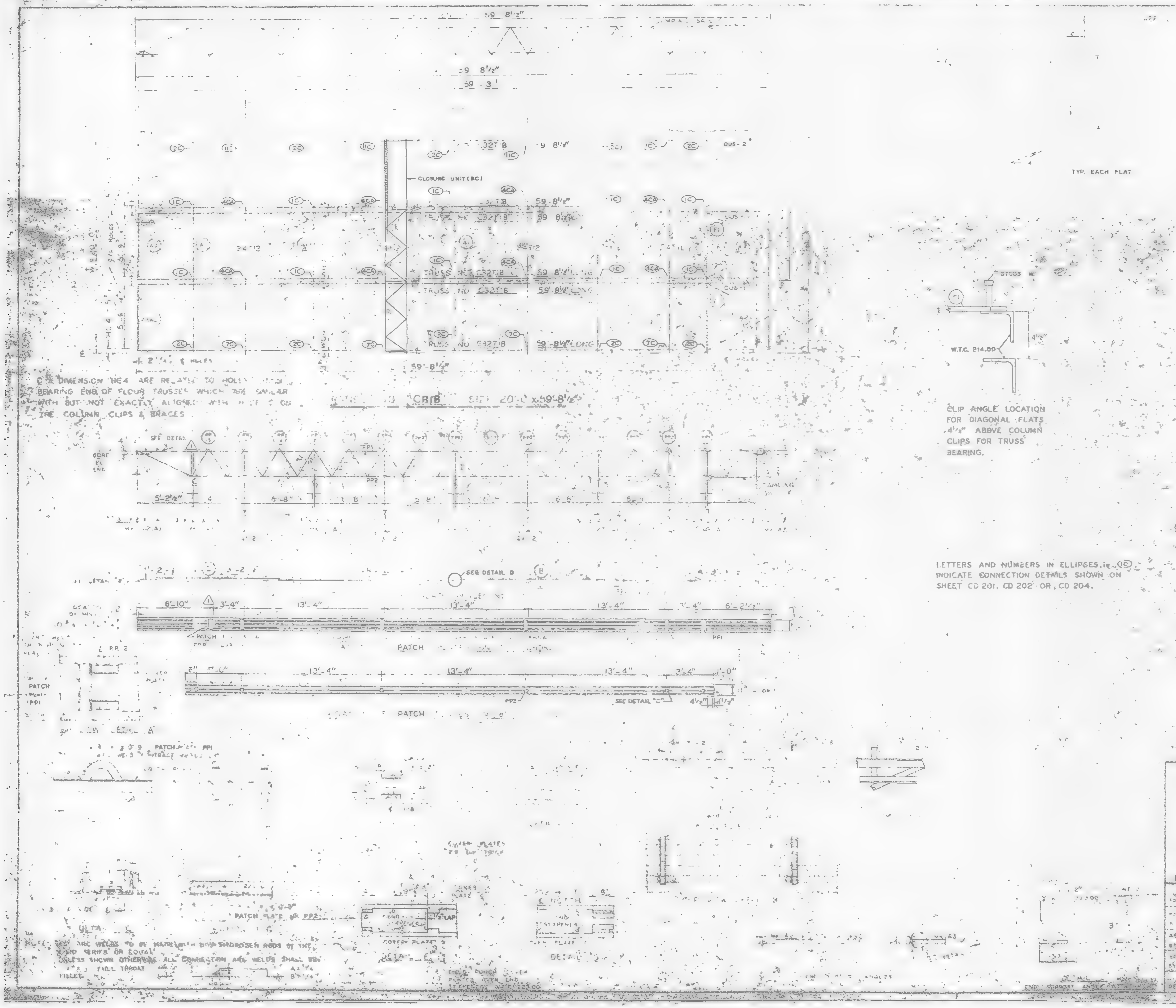
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS [illegible] 24, 26-38 (NORTH & SOUTH) 49-59, 60-66, 68, [illegible]
PANEL CRIA [illegible] 59'-9"
BLDG. B FLOORS 14-24, 26-38 (EAST & WEST) 49-59, 60-69 (WEST)

FABRICATED BY [illegible] STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-B [illegible]
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE APRIL 10, 1968
APPROVED FOR FABRICATION FOR FABRICATOR DATE [illegible]
CHECKED BY [illegible] DATE APRIL 10, 1968
FABRICATION CONT. NO. W.T.C. [illegible] SHEET CRIA



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	C	6	C32T1C - 59'-8"	[illegible]
BRIDGING TRUSSES	T1	1	24T1 - 19'-11"	BT211
	T2	3	24T12 - 19'-11"	BT212
ANGLE	A1	5	3" x 2" x 1/4" x 18'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 7/8"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x [illegible] x 3'-[illegible]	ST 400
	PP2	18	3 1/2" x [illegible] x 0'-3"	ST 400
COVER PLATES	A	3	[illegible]	[illegible]
	B	5	9" x .0135" x 15'-9"	[illegible]
	C	3	9" x .0135" x 13'-2"	[illegible]
	D	3	9" x .0135" x 2'-1"	[illegible]
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 [illegible] 1 1/2" x 1 1/4" x	BT 212
			.250 x 8'-6 1/2"	CD 204
CONNECTION PLATES	P1	5	5 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400



REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
		8	[illegible]T8 - 59'-8½"	ST208
		1	[illegible]	ST211
	T2	3	[illegible] 9'-1"	ST212
	A1	5	3 x 2 x ¼ x 19'-11"	ST 403
	A2	4	3 x 2 x ¼ x 5'-11 7/8	ST 403
	[illegible]		[illegible]	ST 403
	[illegible]		[illegible] 6 9	ST 402
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible] 3"	ST 400
COVER PLATES	A	3	59 x .0135" x 13'-[illegible]½	ST303
	B	6	[illegible] x .0135" x 15'-3	ST303
	C	3	59" x .0135" x 13'-2½"	ST303
	D	3	59" x .0135" x 2'-1½	ST303
ANGLE CLIPS	C1	21	2" x 1½" x 7/64" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	12	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS1	2	3½" x 3½" x 3/8" x 3'-6 7/8"	ST298
	DUS 2	1	3½" x 3½" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	[illegible] x 1'-3"	ST 400
CLOSURE - UNIT	BC	3	2 x 3 1½" x 1¼" x	ST212
			230 x 6'-6½"	CD 204
CONNECTION PLATES	P1	5	3½" x 3/8" x 0'-6½"	ST 400
	P2	4	4½" x .38" x 0'-9"	ST 400
	P3	1	4½" x .38" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	6-9-69	AS NOTED	G.O.C.

[illegible] 3	10-15-68
[illegible]	7-22-68
[illegible] 4	7-22-68
SA 24	1-6-69
7-AB3-2	3-68
7-AB3-2	7-22-68
7-AB2-6 & 7	7-22-68
7-AB4-42	10-15-68

83-91 & 93-106 (N)

PANEL CR[illegible] 59'-8½"

BLDG. B FLOORS 83-91 & 93-106 (WEST) 1

FABRICATION BY [illegible] STEEL COMPANY

[illegible] MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-8

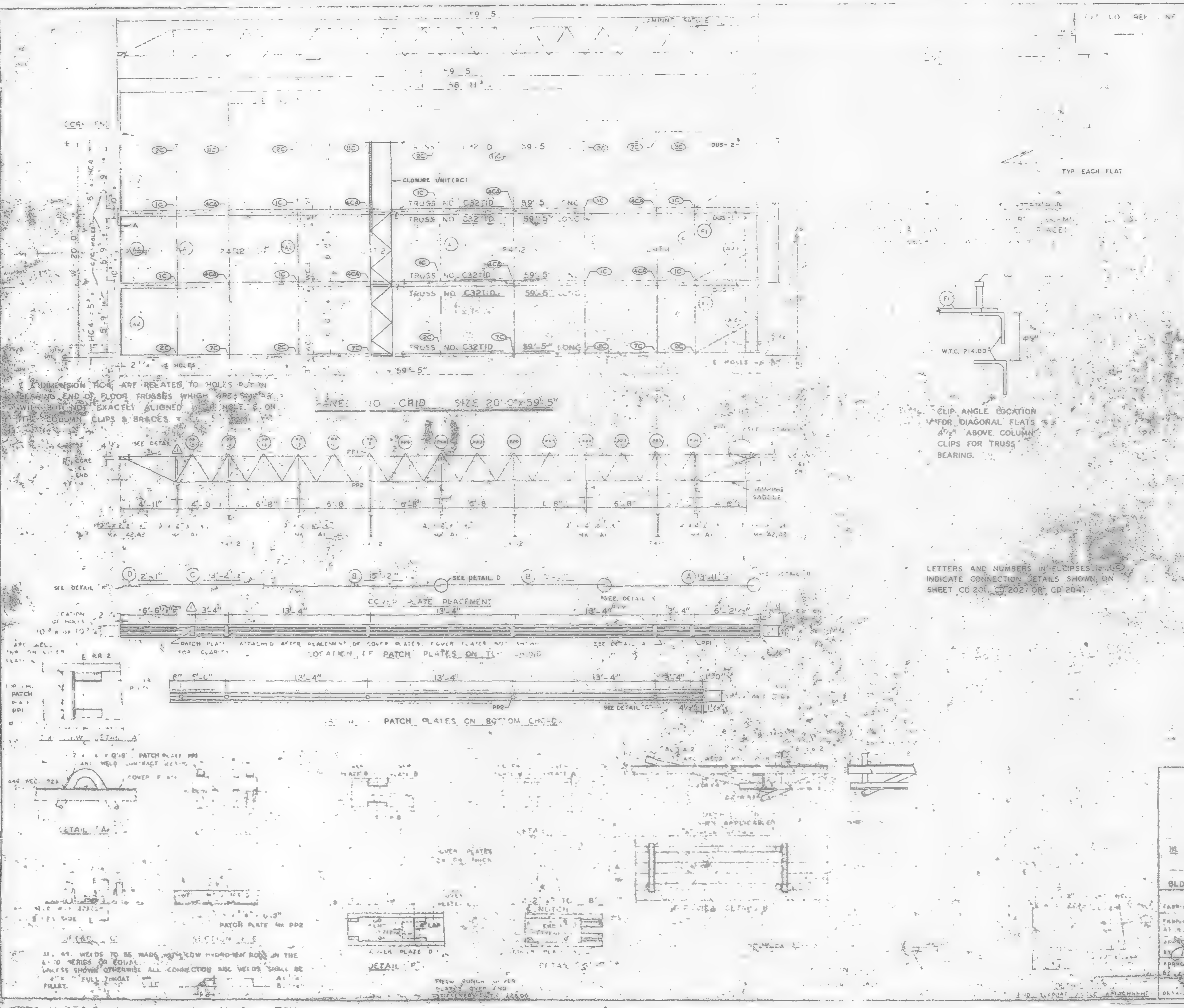
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]

DRAWN BY [illegible] DATE OCT 23 [illegible]

APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE [illegible]

CHECKED BY [illegible] DATE OCT 2[illegible]

DETAILED BY [illegible]



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
[illegible] TRUSSES	D	6	32TID - 59'-5"	T201D
[illegible]		1	24" [illegible] 9'-11"	BT2[illegible]
	T2	3	24" [illegible] 19'-11"	BT212
ANGLE	A1	6	3" x 2" x 1/4" x 9'-1"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	2	[illegible] x 2" x 1/4" x 5'-11 3/4"	ST 403
[illegible]	F	6	[illegible] 2" x [illegible] x 5'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-5"	ST 400
	PP2	18	[illegible] x 0'-3"	ST 400
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST303
	B	6	9" x .0135" x 15'-2"	ST303
	C	3	9" x .0135" x 13'-2 1/2"	ST303
	D	3	9" x .0135" x 2'-1"	ST303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-8"	ST [illegible]
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-0"	[illegible]
	DUS-2	1	[illegible]	[illegible]
CONNECTION BAR	CB1	[illegible]	[illegible]	[illegible] 400
CLOSURE UNIT	BC	3	[illegible]	[illegible]
			230 [illegible]	
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x [illegible]	[illegible]
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .36" x 1'-0"	ST 400

NO.	DATE	REVISION
1	6-5-69	AS NOTED

REF. DRWGS.

[illegible]	10-15-68
AB4-15,16 & 39	7-22-68
AB4-41	7-22-68
SA-12-N	6-69
AB3	[illegible] 68
AB1	7-22-68
AB2-6 & 7	7-22-68
AB4-42	10-15-68

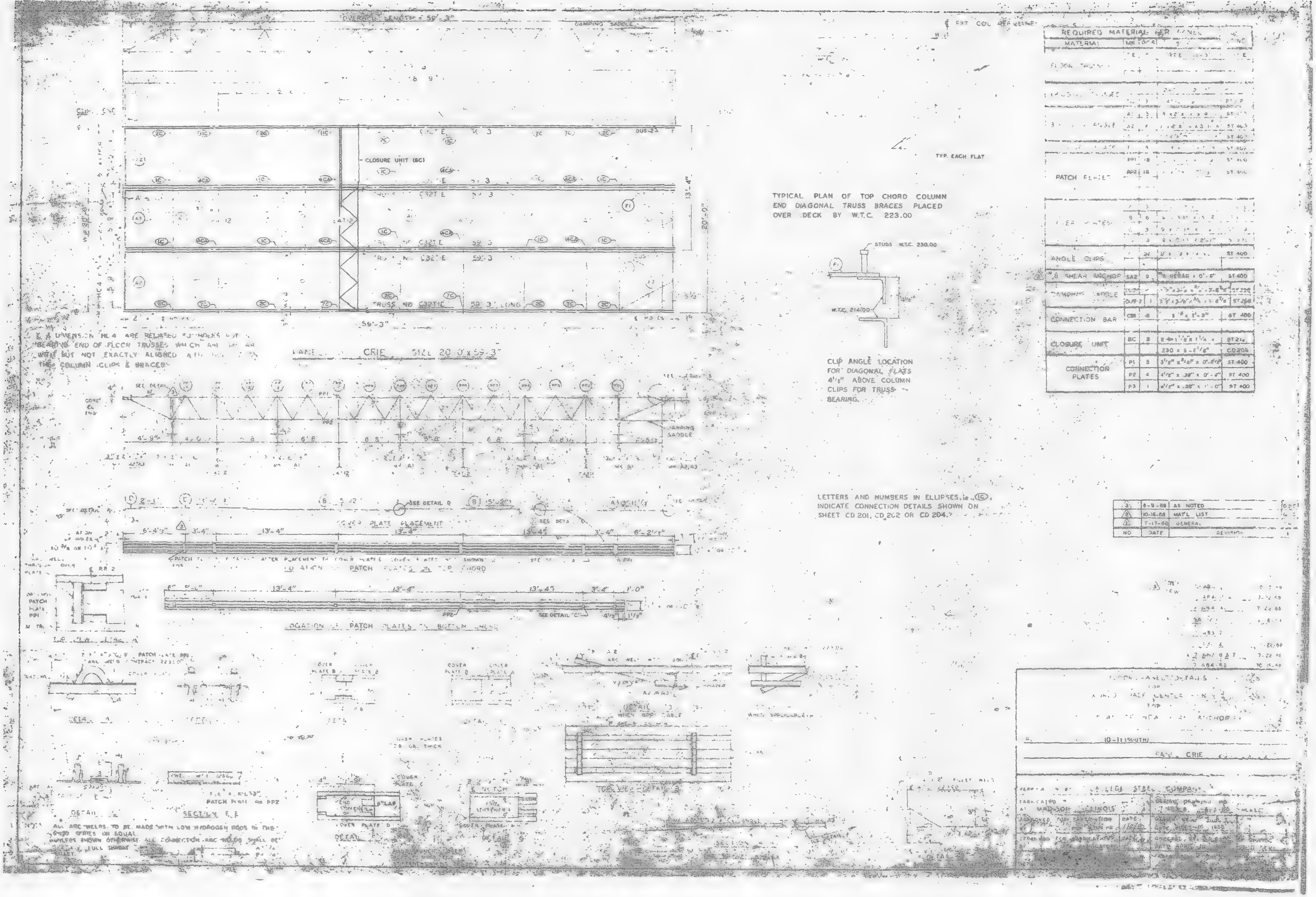
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 81-82 (N)

PANEL GRID 60'-0"

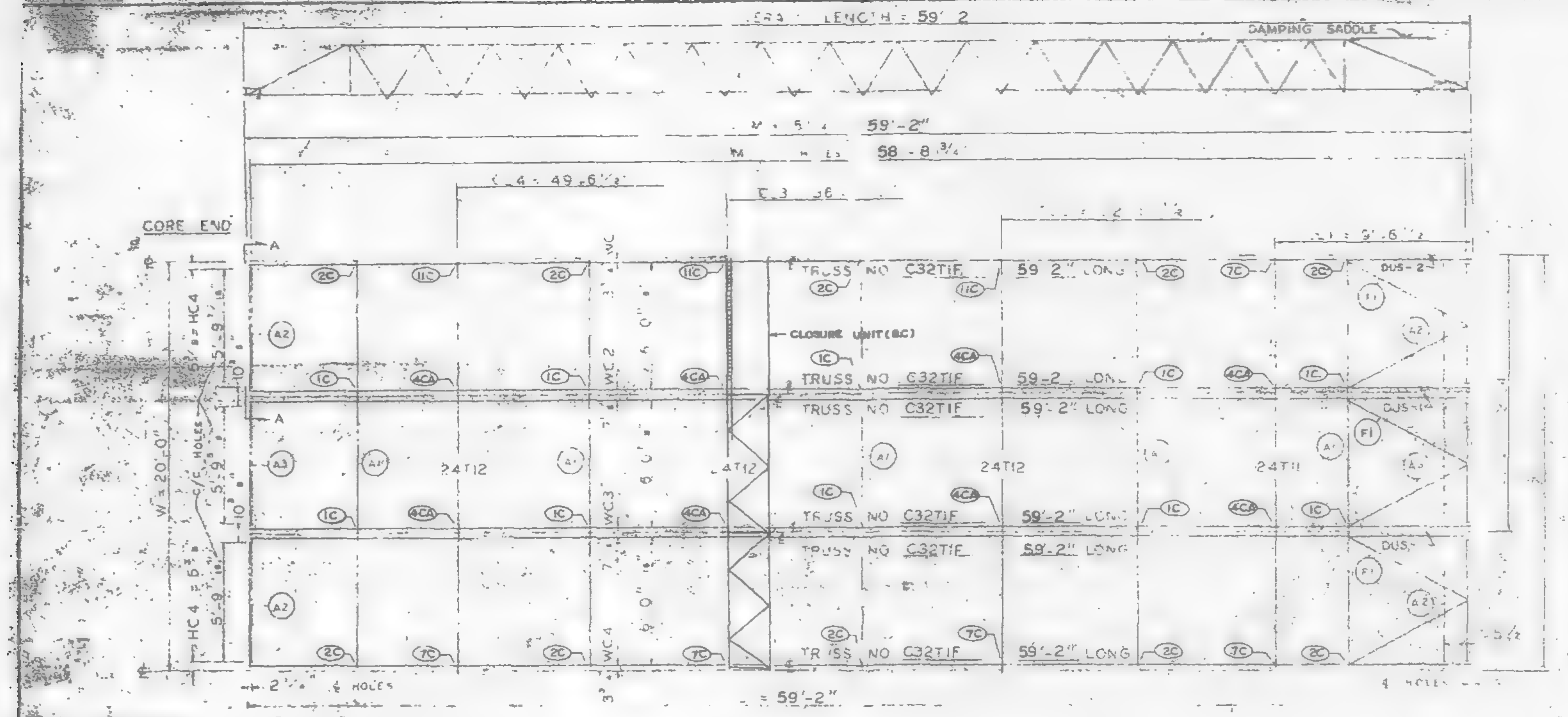
BLDG. B FLOORS 81-82 (WEST) ⚠

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NOS. 7 AB3-8
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE OCT 23, 1968
APPROVED FOR FABRICATION BY [illegible] DATE [illegible]
CHECKED BY [illegible] DATE OCT 23, 1968
DETAILED BY [illegible]
FABRICATION CONT. NO. [illegible]



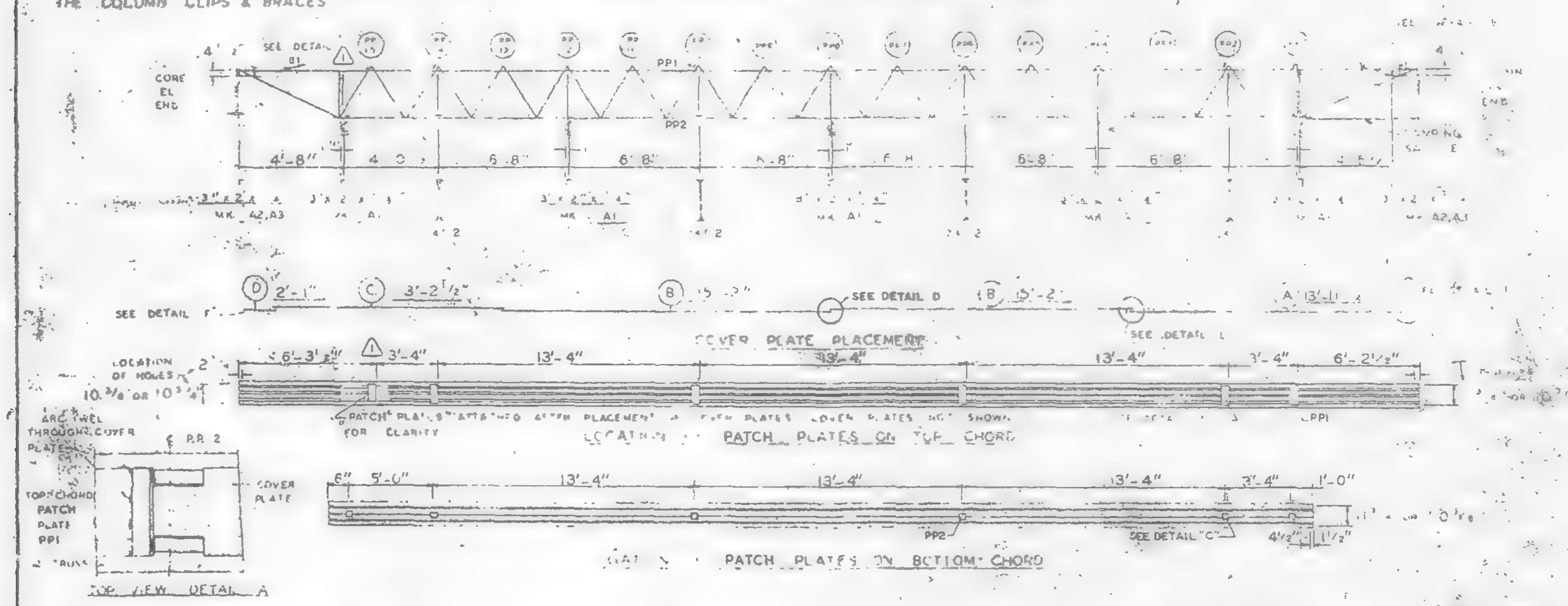
REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	REQ'D	SIZE	SPEC.
FLOOR TRUSS	[illegible]	[illegible]	[illegible]	[illegible]
ANGLE CLIPS	[illegible]	24	[illegible]	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-6"	ST 400
DAMPING SADDLE	DUS-2	1	[illegible]	ST 266
CONNECTION BAR	CB1	4	[illegible]	ST 400
CLOSURE UNIT	BC	3	[illegible]	ST 214
			230 x 5-6 1/8"	CD 204
CONNECTION PLATES	P1	5	[illegible]	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	[illegible] x .39" x 1'-0"	ST 400

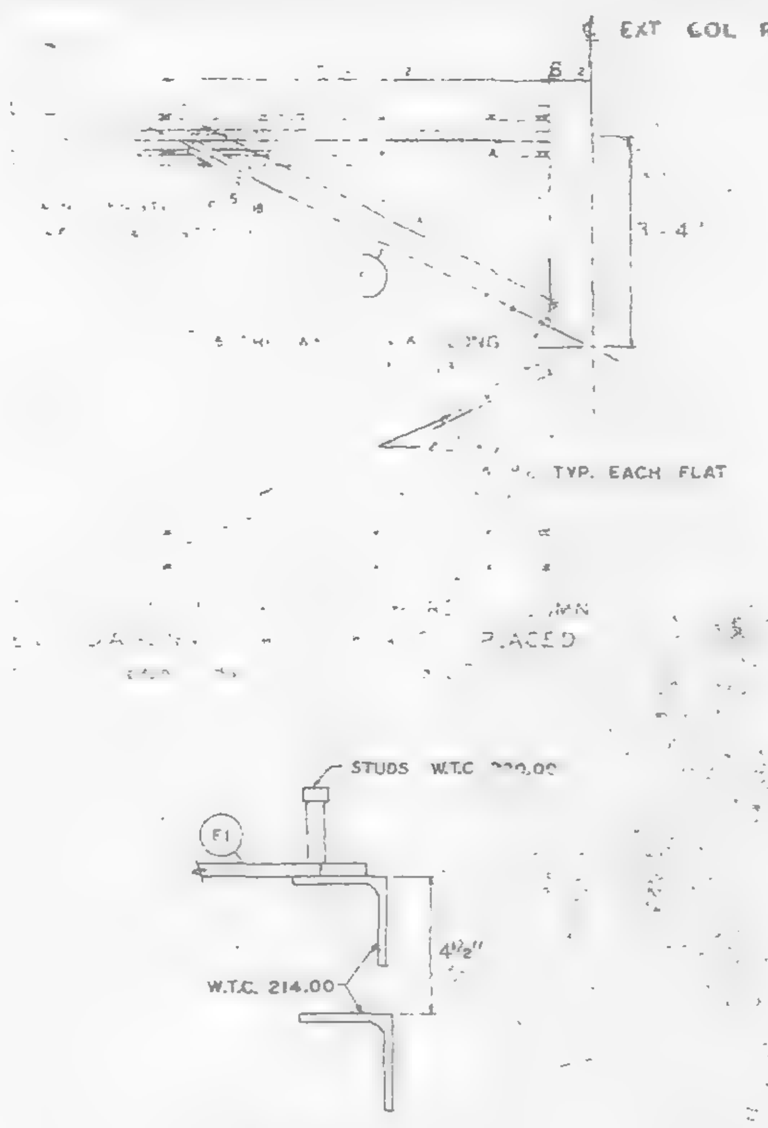
NO.	DATE	REVISION
3	8-9-68	AS NOTED
2	10-16-68	MAT'L LIST
1	7-17-68	GENERAL



HC-4 DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE C ON THE COLUMN CLIPS & BRACES

PANEL NO. CRIF SIZE 20'-0" x 59'-2"





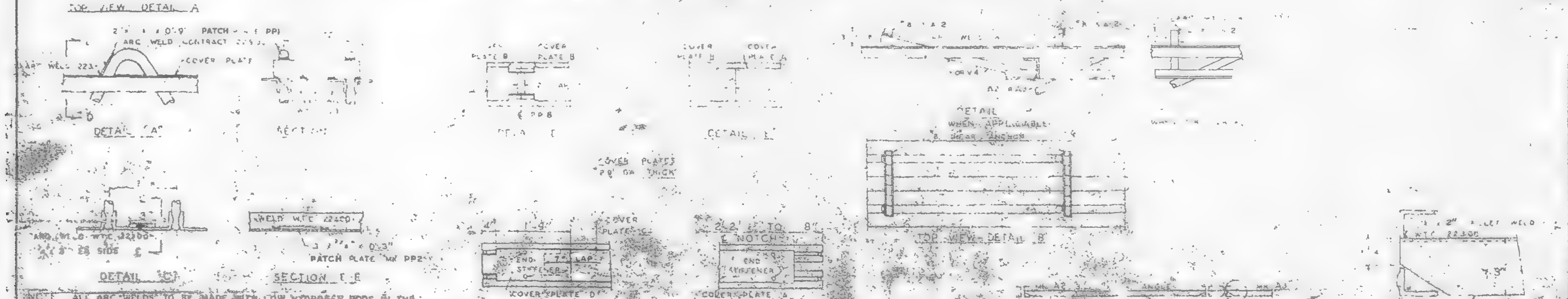
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1F	6	C32TIF - 59'-2"	ST201F
BRIDGING TRUSSES	T11	1	24T11 - 19'-11"	BT211
	T12	3	24T12 - 19'-11"	BT212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-11 9/16	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11 3/4	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x .4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	3	9" x 0135" x 13'-8 1/2"	ST303
	B	6	9" x 0135" x 15'-2"	ST303
	C	3	9" x 0135" x 13'-2 1/2"	ST303
	D	3	9" x 0135" x 2'-1"	ST303
ANGLE CLIPS	C1	21	2" x 1 1/2" x [illegible]	ST 400
"B" SHEAR ANCHOR	SA2	9	B REBAR x 0'-8"	ST400
DAMPING SADDLE	DUS1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST [illegible]
	DUS 2	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST [illegible]
CONNECTION BAR	CB1	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 - 1 1/2" x 1 1/4" x .230 x 8'-6 1/2"	BT212 CD204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 402
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

1	8-9-69	AS NOTED
NO.	DATE	REVISION

7-AB4-3
7-AB4-15,16 & 39
7-AB4-4
SA-12A
7-AB3-2
7-AB1-2
7-AB4-42



NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE [illegible] FULL THROAT FILLET.

PANEL DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 47-48 (S) 47-48, 70-71 (N)

PANEL CRIF 20'

BLDG. B FLOORS 47-48 (EAST & WEST) 70-71 (WEST) 1

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

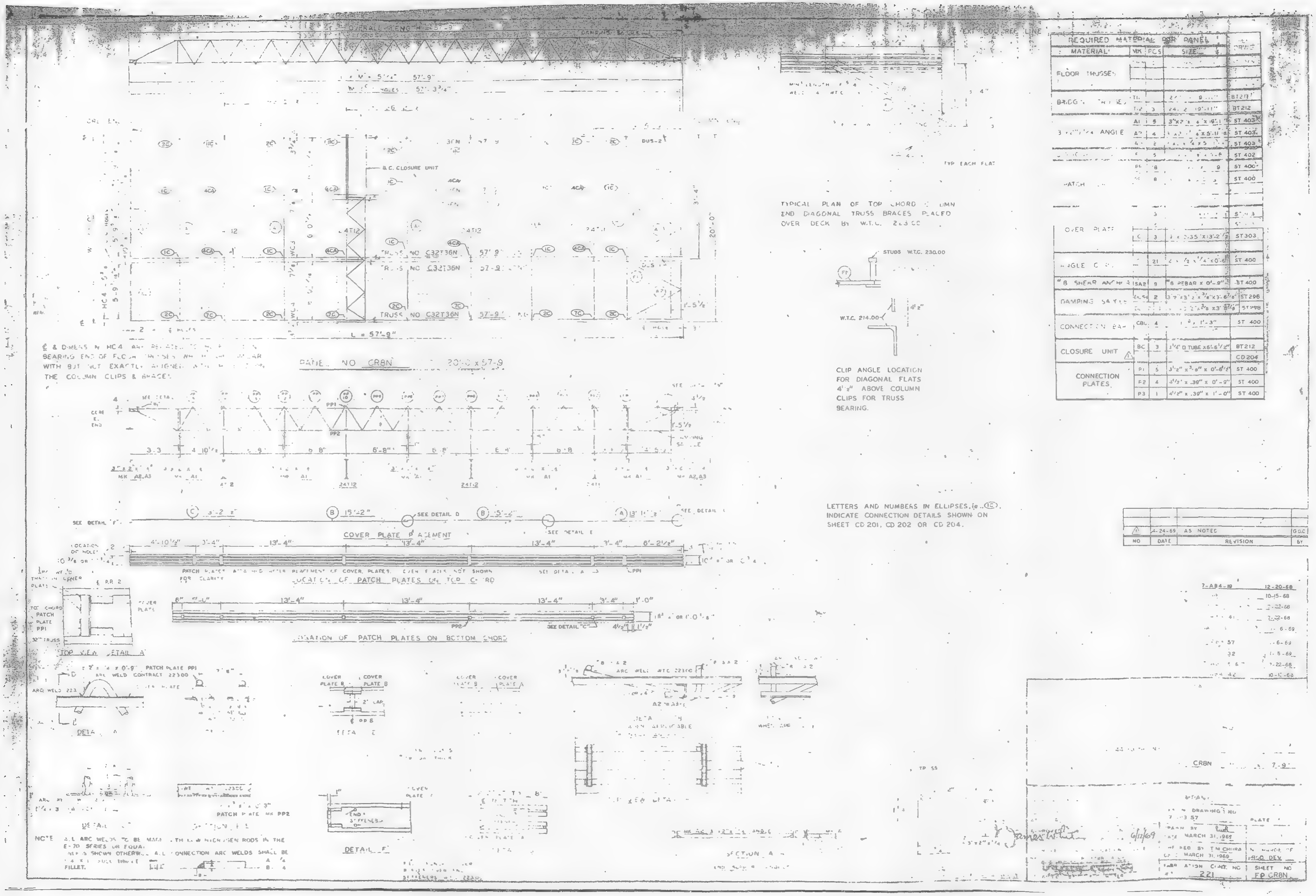
DESIGN DRAWING NO.

APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. | DATE

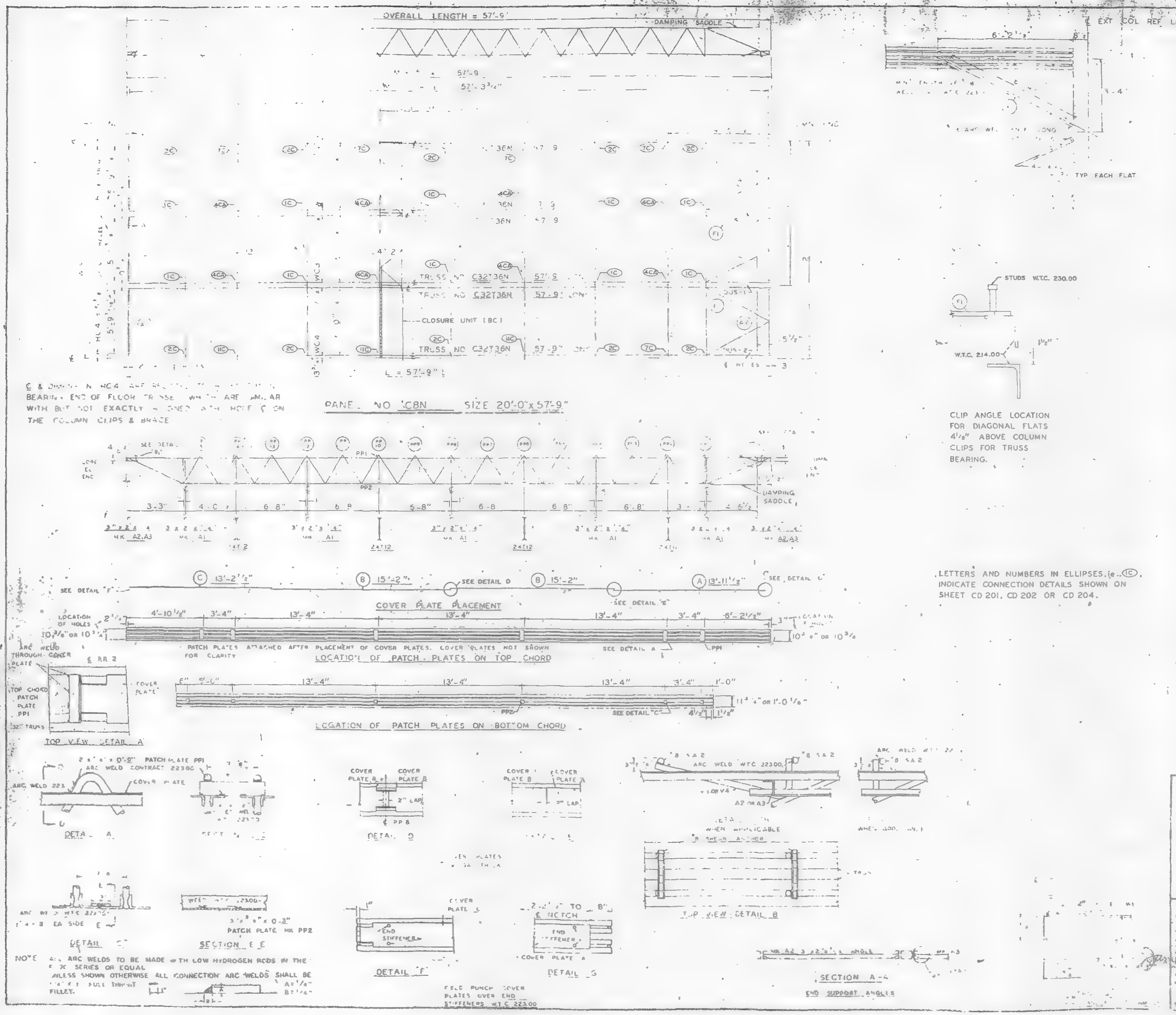
DRAWN BY | DATE OCT. 23, 1968

APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR | DATE

CHECKED BY | DATE OCT. 23



REQUIRED MATERIAL FOR PANEL
MATERIAL
FLOOR TRUSSES
BRIDGING TRUSSES
ANGLE
PATCH
COVER PLATE
ANGLE CLIPS
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
LETTERS AND NUMBERS IN ELLIPSES, INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.
B.C. CLOSURE UNIT
TRUSS NO C32T36N
L = 57'-9"
PANEL NO CRBN
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL A
DETAIL F
SECTION A
4-24-69 AS NOTED
NO DATE REVISION
CRBN
DRAWN BY
MARCH 31, 1969
CHECKED BY T.M. CHIURA
MARCH 31, 1969
CONTRACT NO 221
SHEET NO FP CRBN



REQUIRED MATERIAL PER PANEL				REF DWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	[illegible]	6	[illegible]	[illegible]
BRIDGING TRUSSES	T11	1	24T11-19'-11"	BT211
	T12	3	24T12-19'-11"	BT212
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	4	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	2	3"x2"x1/4"x5'-11 3/4"	ST 403
DIAGONAL FLATS	F	[illegible]	[illegible]x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	18	2"x1/4"x0'-9"	ST 400
	PP2	18	[illegible]x3/8"x0'-3"	ST 400
COVER PLATES			[illegible]	ST 303
			[illegible] 5-2	ST 303
	C	3	3"x.0135"x13'-2 1/2"	ST 303
ANGLE CLIPS	[illegible]	21	2"x1/2"x1/4"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA8	5	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3"x3 1/2"x3/8"x3'-6 7/8"	ST 298
	DUS-2	1	[illegible]x3 1/2"x3/8"x3'-6 7/8"	ST 298
CONNECTION BAR	CB1	4	1"ø x 1'-3"	ST 400
CLOSURE UNIT ⚠1	BC	3	1 1/4" O TUBE x 6'-6 1/2"	BT 212
				CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400

NO.	DATE	REVISION	BY
1	4-24-69	AS NOTED	G.D.

REF DWGS	
7-AB4-19	12-20-68
7-AB4-1'	10-15-68
7-AB4 5 & 6	7-22-68
7-AB4 41	7-22-68
SA 124	1-6-69
7-AB3-58	1-6-69
7-AB1 32	1-6-69
7-AB2 6 & 7	7-22-68
7-AB4-42	10-15-68

44 (SOUTH ONLY)

C8N 7-9

COMPANY

DESIGN DRAWING NO 7 593 56 — PLATE 1

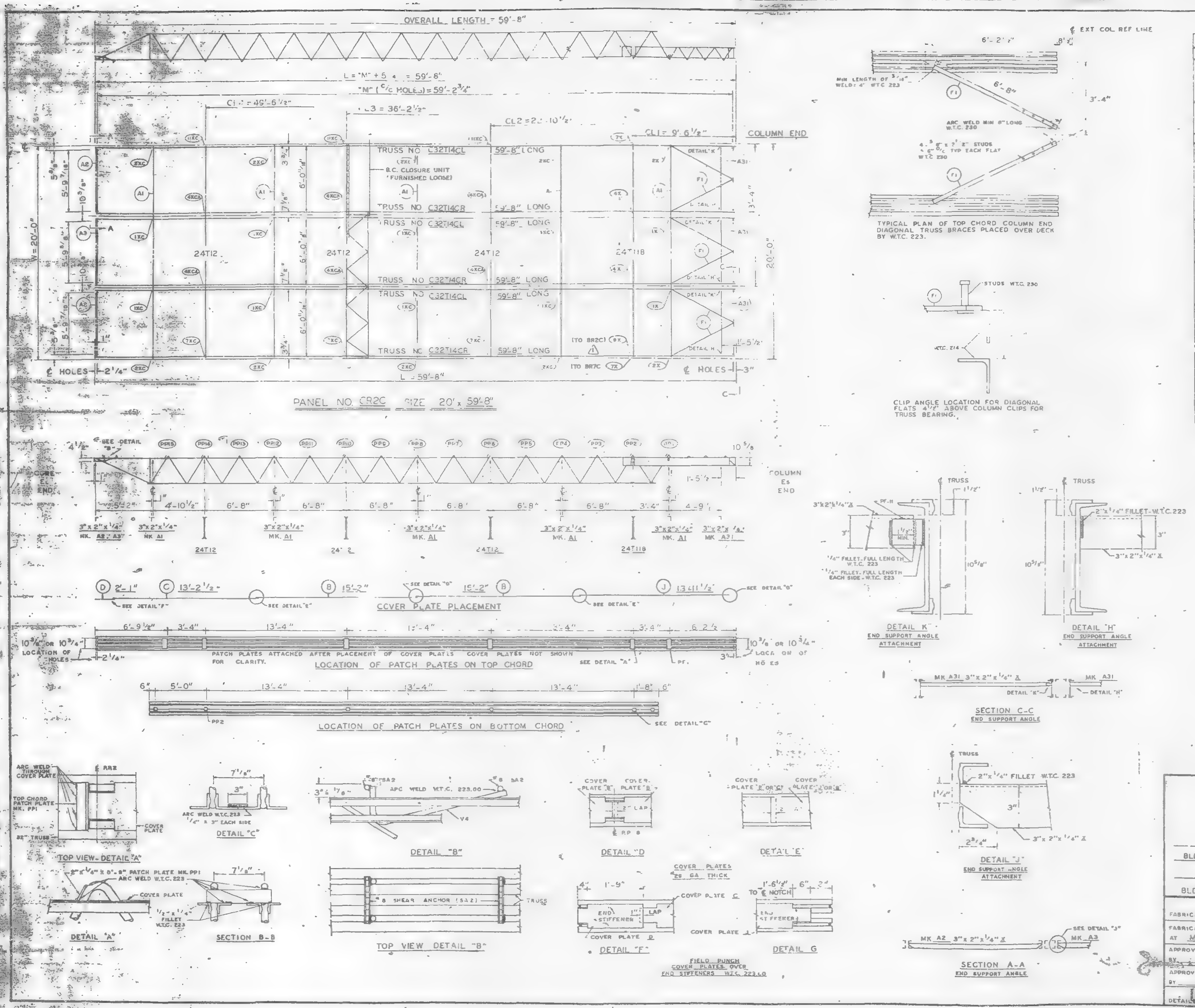
DRAWN BY [signature] DATE MARCH 31, 1969

CHECKED BY T.M. CHURA DATE MARCH 31, 1969 — IN CHARGE OF PROD. DEV.

APPROVED FOR FABRICATION DATE 6/1/69

FABRICATION CONT. NO. W.T.C. 221

SHEET NO FP C8N



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8'	ST 214CL
	T14CR	3	C32T14CR x 59'-8'	ST 214CL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	BT 2118
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	4' D 6'-6 1/2' TUBE	BT 212
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	2	[illegible]x2"x1/4"x5'-11 9/16"	ST 403
	A3	[illegible]	3"x2"x1/4"x5'-11 3/4"	ST 403
	A3	3	3"x2"x1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	[illegible]	[illegible]	[illegible]x1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	2" x 5/8" x 5'-8"	ST 402
PATCH PLATES	PP	[illegible]	2"x1/4" x 0'-9"	ST 400
	PP2	18	3"x3/8"x0'-3"	ST 400
COVER PLATES	B	6	9"x.0135" x 15'-2"	ST 303
	C	3	9"x.0135" x 13'-2 1/2"	ST 303
	D	3	9"x.0135" x 2'-1"	ST 303
	J	3	9"x.0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C	21	2"x1 1/2"x.25"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB	5	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P	4	3 1/2"x3/8"x0'-6 1/2"	ST 400
	P2	4	4 1/2"x.39"x0'-9"	ST 400
	P3	1	4 1/2"x.39"x1'-0"	ST 400
	P9	6	3"x1/2"x1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.

NO.	DATE	REVISION
	5-12-69	AS NOTED

REF. DRWG.

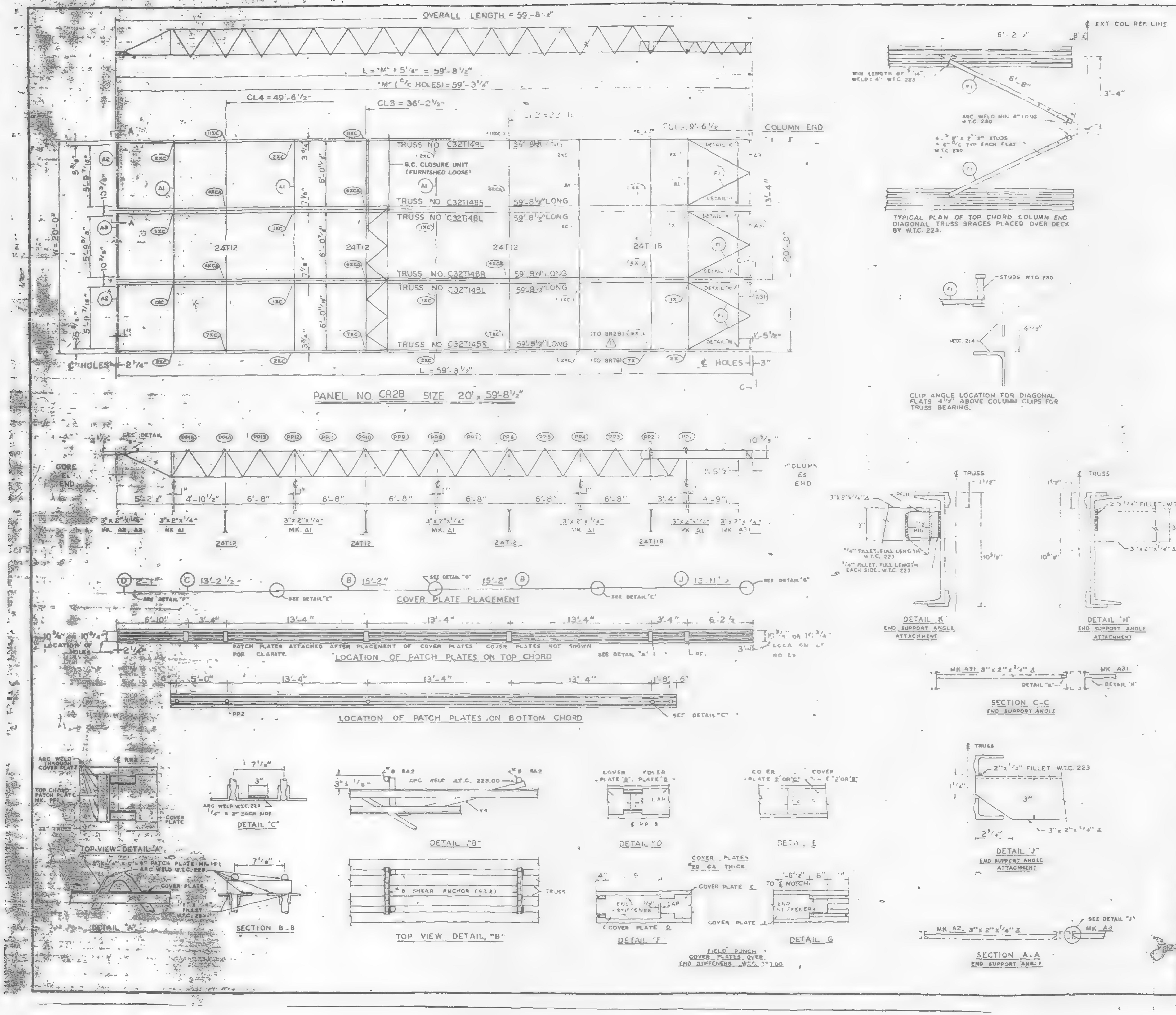
7-AB3-29	10-4-68
7-AB4-28	7-22-68
7-AB1-13	10-4-68
7-AB2-7	7-22-68
7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)
PANEL CR2C - 20' x 59'-8"
BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-29	PLATE
APPROVED FOR FABRICATION BY ___ FOR PONYA	DATE 6/6/69	DRAWN BY [illegible] DATE APRIL 28, 1969	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 28, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP CR2C



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T148L	3	C32T148L x 59'-8 1/2"	ST 2148L
	T148R	3	C32T148R x 59'-8 1/2"	ST 2148L
BRIDGING TRUSSES	T11B	1	24T11B x 19'-11"	BT 211B
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" ☐ 6'-6 1/2" TUBE	BT 212
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A3	3	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9"x .0.35" x 15'-2"	ST 303
	C	3	9"x .0135" x 13'-2 1/2"	ST 303
	D	3	9"x .0135" x 2'-1"	ST 303
	J	3	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x1 1/2"x .25"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	5	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
	5-12-69	AS NOTED	G.D.C.

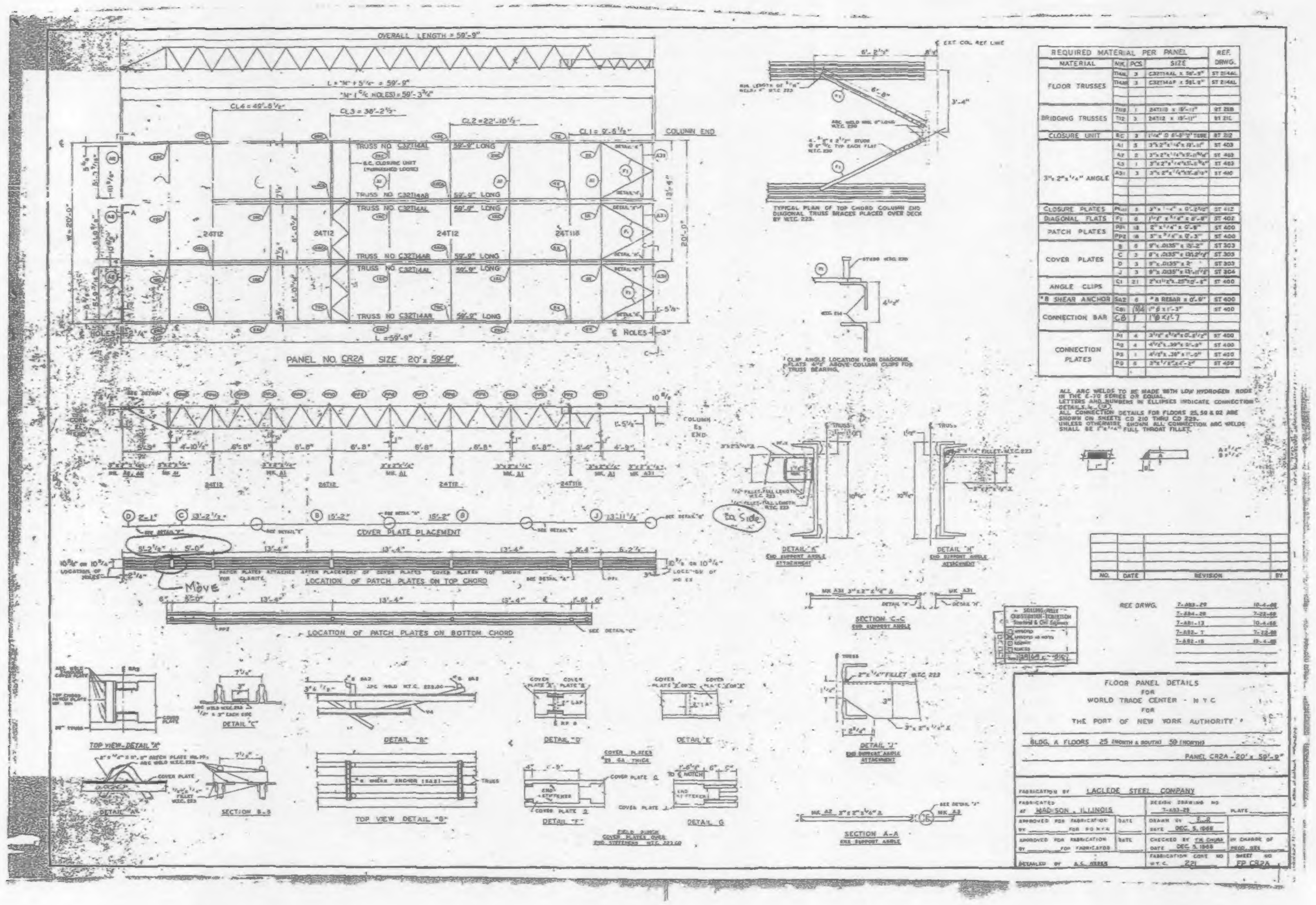
REF DRWG.

7-AB3-29	10-4-68
7-AB4-28	7-22-68
7-AB1-13	10-4-68
7-AB2-7	7-22-68
7-AB2-15	10-4-68

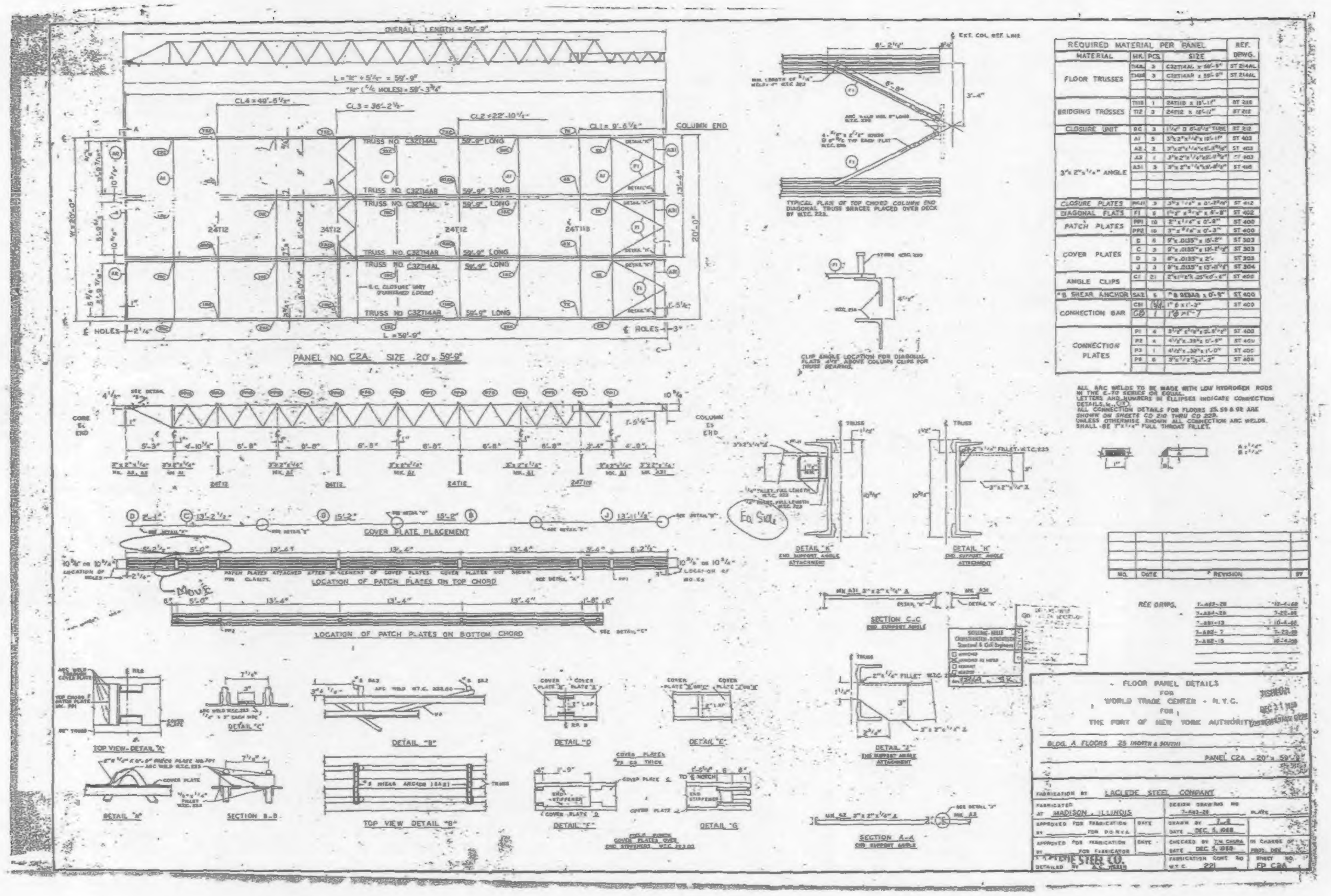
FLOOR PANEL DETAILS
FOR
AOR.D 'RADE CENTER - N Y C
FOR
THE P RT F NEW YORK AUTHORITY

BLDG. A FLOORS 92 (NORTH)
PANEL CR2B - 20' x 59'-8 1/2"
BLDG. B FLOORS 92 (WEST)

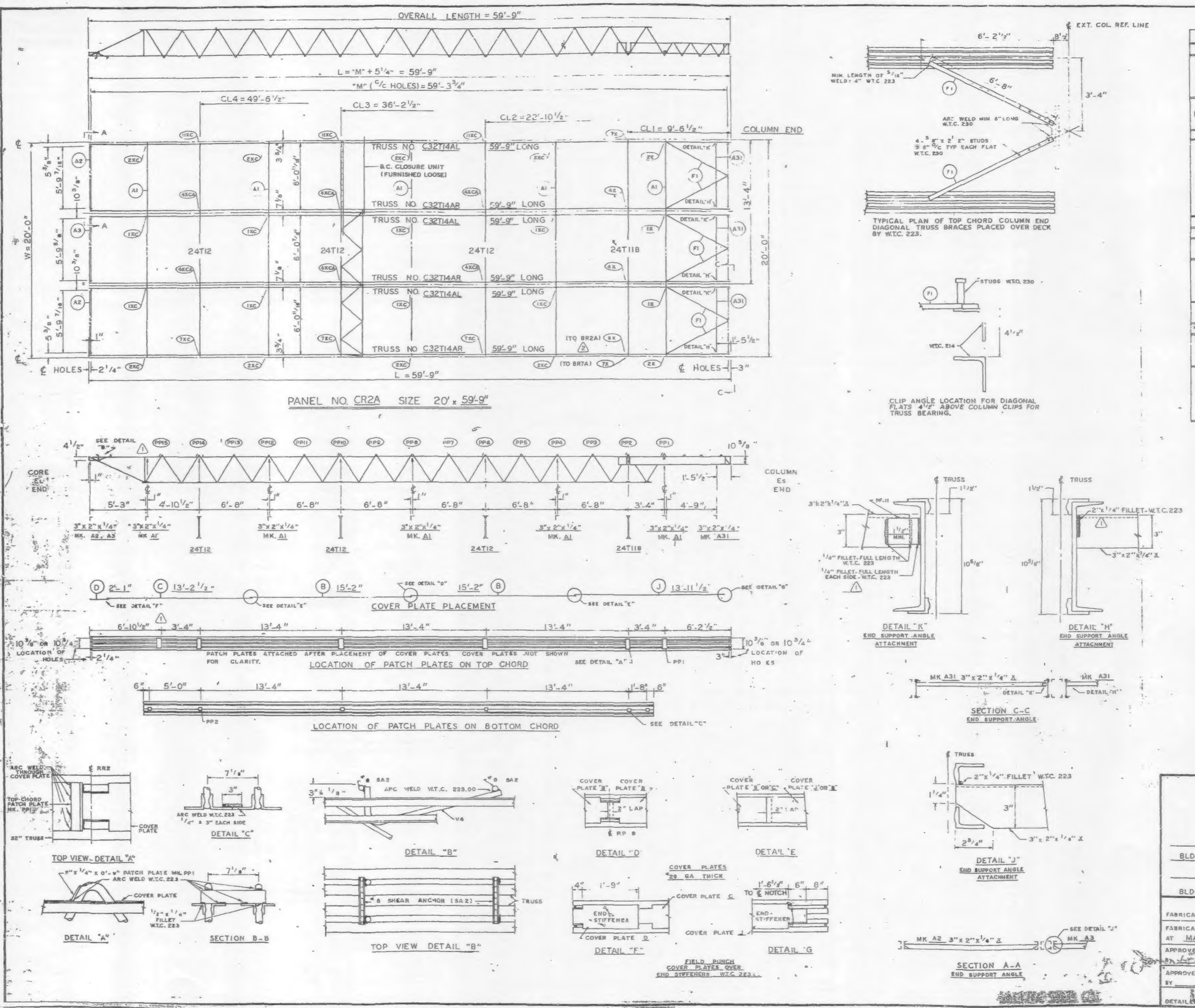
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-29 PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 6/6/69
DRAWN BY [illegible] DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY FOR FABRICATORS DATE
CHECKED BY T.M. CHURA DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP CR2B



OVERALL LENGTH = 58'-9"
PANEL NO. CR2A SIZE 20' x 59'-0"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 229.
REQUIRED MATERIAL PER PANEL
MATERIAL
MK.
PCS.
SIZE
REF. DRWG.
FLOOR TRUSSES
BRIDGING TRUSSES
CLOSURE UNIT
3"x 2"x 1/4" ANGLE
CLOSURE PLATES
DIAGONAL FLATS
PATCH PLATES
COVER PLATES
ANGLE CLIPS
#8 SHEAR ANCHOR
CONNECTION BAR
CONNECTION PLATES
ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS.
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 82 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.
TOP VIEW DETAIL "P"
DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "J"
DETAIL "F"
DETAIL G
TOP VIEW DETAIL "B"
SECTION B-B
SECTION A-A
SECTION C-C
NO.
DATE
REVISION
BY
REF. DRWG.
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)
PANEL CR2A - 20' x 59'-0"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DRAWN BY
DATE DEC. 5, 1968
CHECKED BY
DATE DEC. 5, 1968
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP CR2A



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	3	C32T14AL x 58'-5"	ST 214AL
	T14AR	3	C32T14AR x 58'-5"	ST 214AL
BRIDGING TRUSSES	T118	1	24T118 x 18'-11"	ST 218
	T12	3	24T12 x 18'-11"	ST 212
CLOSURE UNIT	BC	3	1 1/4" O 6'-5 1/2" TUBE	ST 212
3"x2"x1/4" ANGLE	A1	5	3"x2"x1/4"x18'-11"	ST 403
	A2	2	3"x2"x1/4"x5'-11 15/16"	ST 403
	A3	1	3"x2"x1/4"x5'-11 3/4"	ST 403
	A31	3	3"x2"x1/4"x5'-8 1/2"	ST 410
CLOSURE PLATES	PC11	3	3"x1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x1 1/2"x.25"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	[illegible]	1" O x 1'-3"	ST 400
	CB	1	1" O x 1'-7	
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .38" x 0'-9"	ST 400
	P3	1	4 1/2" x .38" x 1'-0"	ST 400
	P8	6	3" x 1/2" x 1'-2"	ST 408



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	BT 2118
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" □ 6'-6 1/2" TUBE	BT 212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	1	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A31	3	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2" x 1 1/2" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY
2	5-12-69	AS NOTED	G.D.C.
1	2-4-69	AS NOTED	G.D.C.

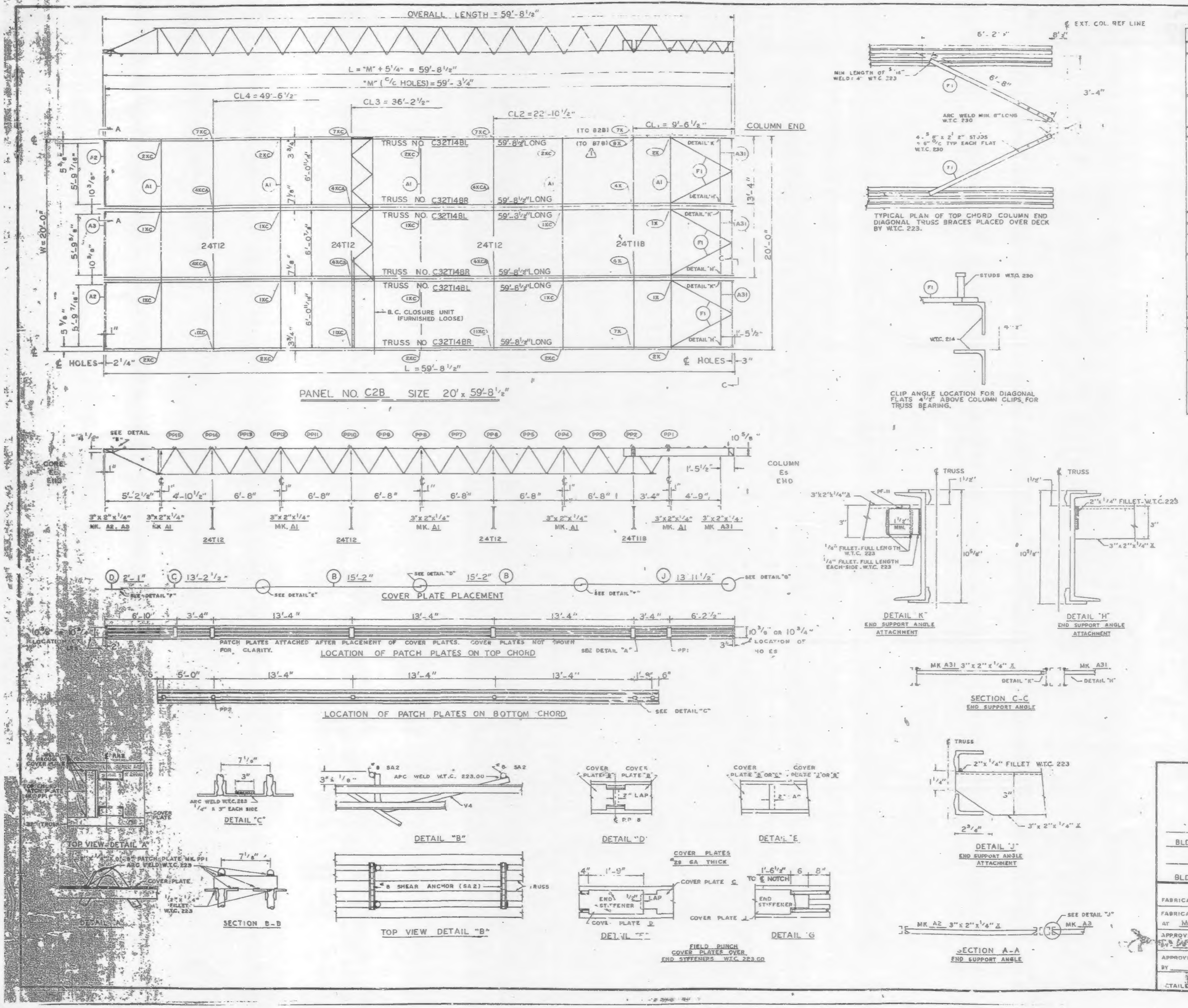
REF. DRWG.

7-AB3-29	10-4-68
7-AB4-28	7-22-68
7-AB1-13	10-4-68
7-AB2-7	7-22-68
7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)
PANEL CR2A - 20' x 59'-9"
BLDG. B FLOORS 25 (EAST & WEST) 59 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-29 PLATE
APPROVED FOR FABRICATION BY [signature] FOR P.O.N.Y.A. DATE 6/6/69
DRAWN BY [signature] DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE ____
CHECKED BY T.M. CHURA DATE DEC. 5, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY R.G. WEBER
LACLEDE STEEL CO.
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-CR2A



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14BL	3	C32T14BL x 59'-8½"	ST 214BL
	T14BR	3	C32T14BR x 59'-8½"	ST 214BL
BRIDGING TRUSSES	T11B	1	24T11B x 19'-11"	BT 211B
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1¼" ◻ 6'-6½" TUBE	BT 212
3"x 2"x ¼" ANGLE	A1	5	3"x 2"x ¼"x 19'-11"	ST 403
	A2	2	3"x 2"x ¼"x 5'-11 9/16"	ST 403
	A3	1	3"x 2"x ¼"x 5'-11 ¾"	ST 403
	A31	3	3"x 2"x ¼"x 5'-8⅛"	ST 410
CLOSURE PLATES	PF-11	3	3" x ¼" x 0'-2⅜"	ST 412
DIAGONAL FLATS	F1	6	1½" x ⅝" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x ¼" x 0-9"	ST 400
	PP2	18	3" x ⅜" x 0'-3"	ST 400
COVER PLATES	B	6	9"x .0135" x 15'-2"	ST 303
	C	3	9"x .0135" x 13'-2½"	ST 303
	D	3	9"x .0135" x 2'-1"	ST 303
	J	3	9"x .0135" x 12'-11½"	ST 304
ANGLE CLIPS	C1	21	2"x1½"x .25"x0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ∅ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .39" x 0'-9"	ST 400
	P3	1	4½" x .39" x 1'-0"	ST 400
	P9	6	3" x ½" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x ¼" FULL THROAT FILLET.

NO.	DATE	REVISION	BY
1	5-12-69	AS NOTED	G.D.L.

REF DRWG.

7-AB3-28	10-4-68
7-AB4-28	2-22-68
7-AB1-13	10-4-68
7-AB2-7	7-22-68
7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 92 (NORTH)
PANEL C2B - 20' x 59'-8½"
BLDG. B FLOORS 92 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-28 PLATE
APPROVED FOR FABRICATION BY FOR PONYA DATE 6/6/69
DRAWN BY DATE APRIL 26, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO. FP C2B